DATA BOOK
FOR
THE UPPER KRONG BUK IRRIGATION PROJECT
IN
THE UPPER SREPOK BASIN

THE REPUBLIC OF VIET-NAM

VOLUME-I

THE OVERSEAS TECHNICAL COOPERATION AGENCY

TOKYO

GOVERNMENT OF THE REPUBLIC OF VIET-NAM

DATA BOOK

FOR

THE UPPER KRONG BUK IRRIGATION PROJECT

IN

THE UPPER SREPOK BASIN

VOLUME – I

THE OVERSEAS TECHNICAL COOPERATION AGENCY

TOKYO

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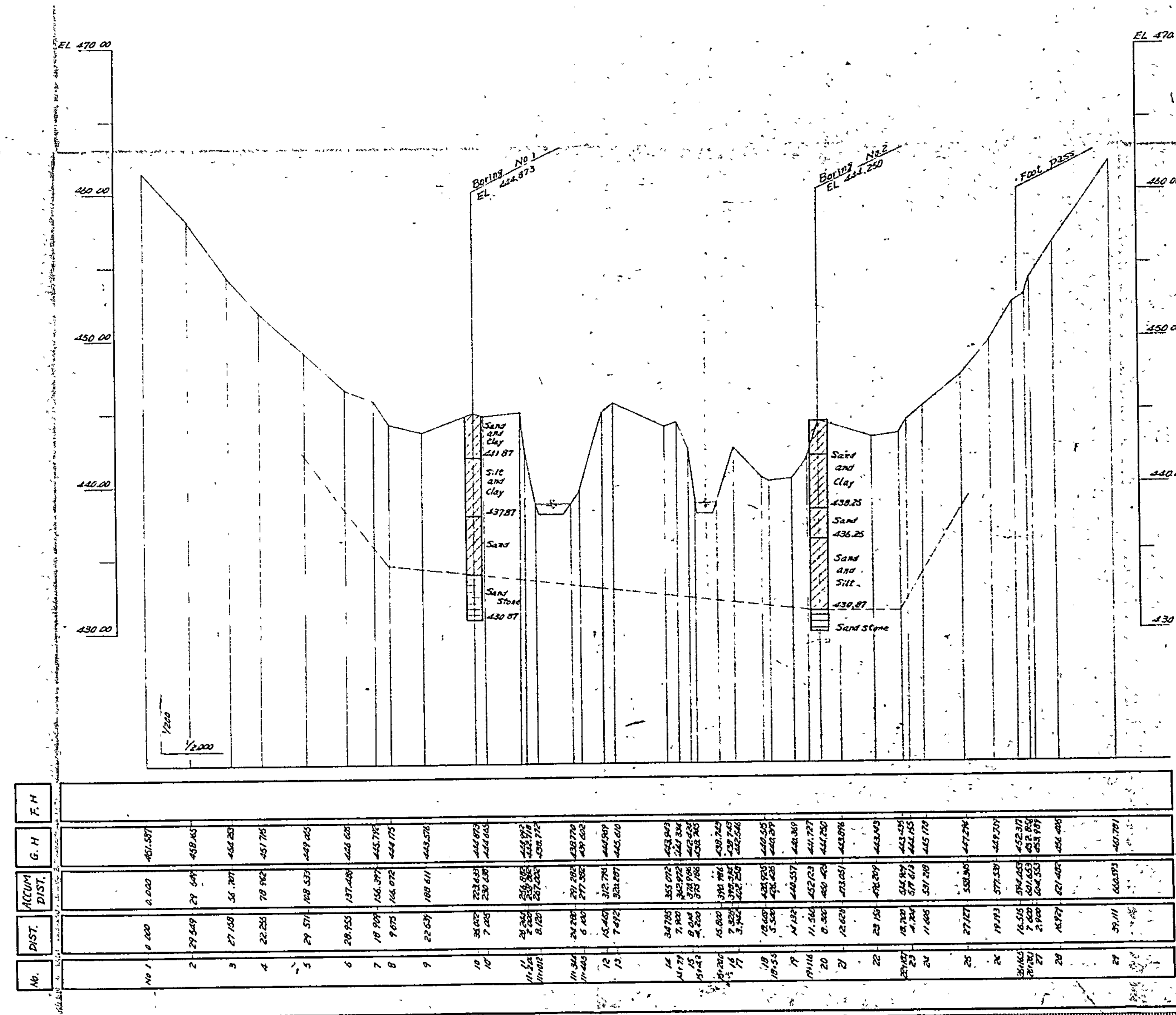

OVERSEAS TECHNICAL COOPERATION AGENCY

KRONG BUK PROJECT, UPPER SREPOK VIET-NAM

GEOLOGICAL SECTION OF UPPER KRONG PACH DAM SITE

NIPPON KOEI CO., LTD. TOKYO
(CONSULTING ENGINEERS)

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CHECKED	DATE		
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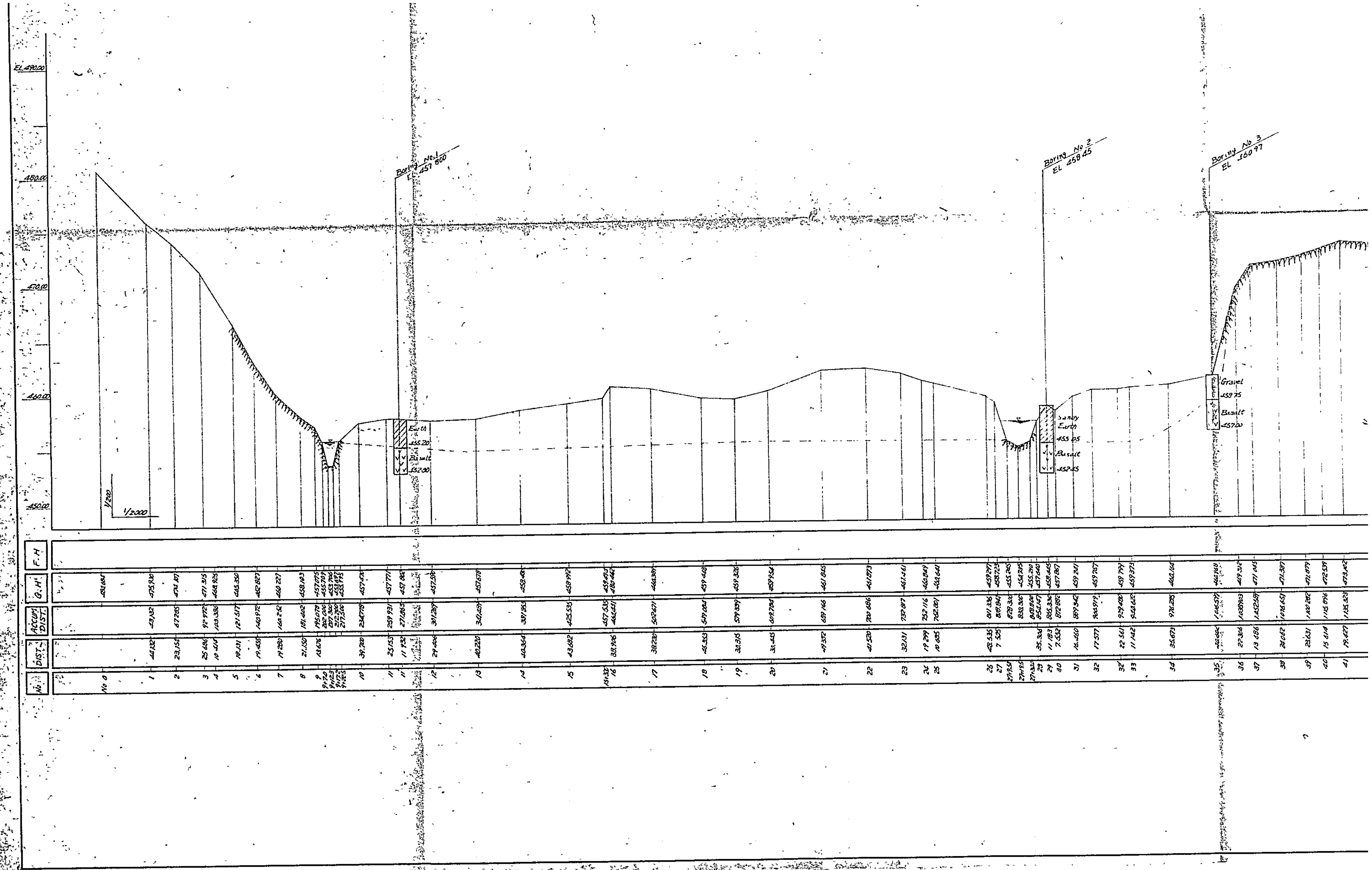
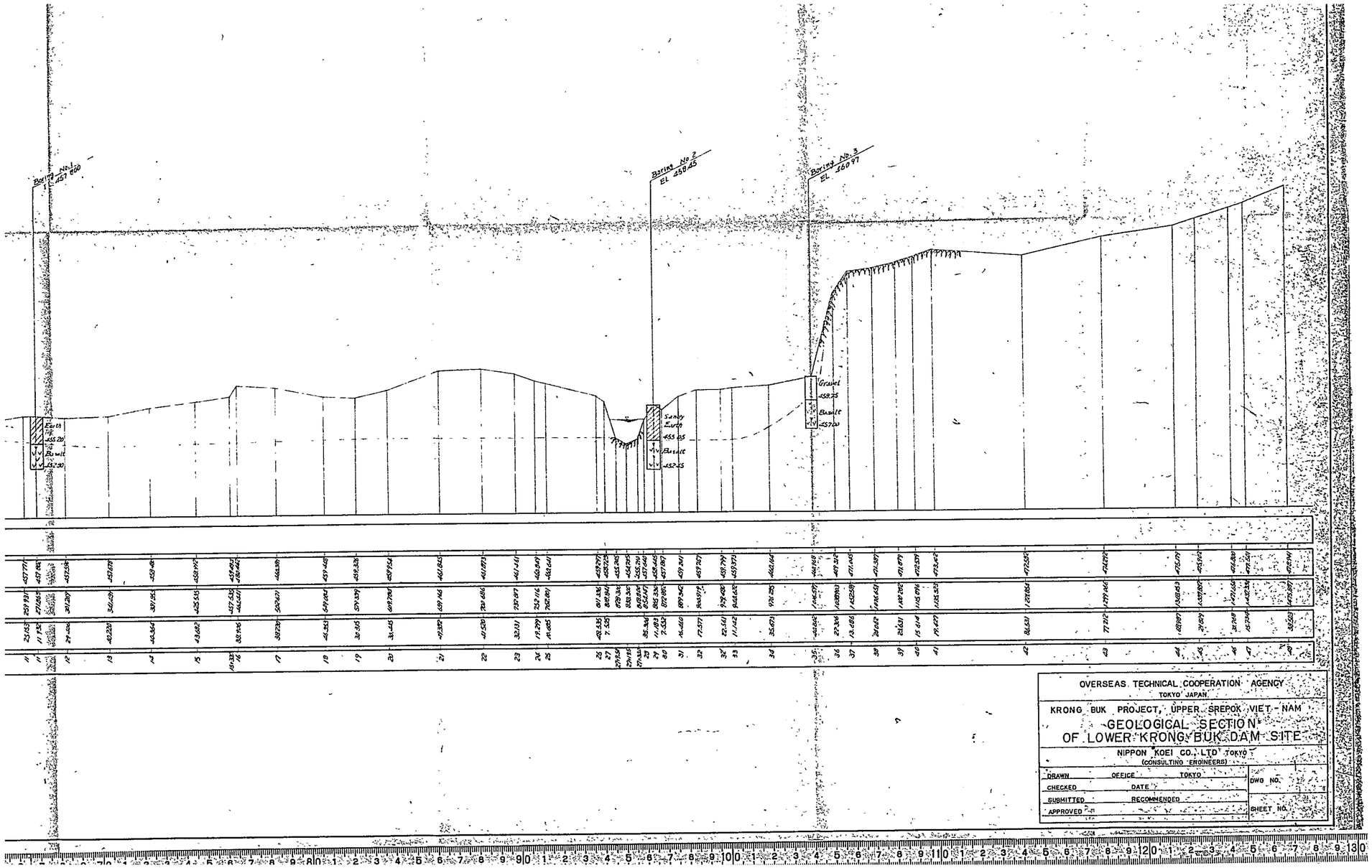
APPROVED			



EL 490.00
480.00
470.00
460.00
450.00
1/200
1/2000
Boring No.1
EL 457.800
Earth
455.20
Basalt
452.00
Boring No.2
EL 458.45
Sandy Earth
455.05
Basalt
452.25
Boring No.3
EL 460.97
Gravel
459.75
Basalt
457.00
F.H
G.H
ACCUM DIST.
DIST.
No



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TOKYO JAPAN

KRONG BUK PROJECT, UPPER SREPOK VIET-NAM

GEOLOGICAL SECTION OF LOWER KRONG BUK DAM SITE

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APPROVED		SHEET NO.

GEOLOGICAL RECORD OF TEST PIT

HOLE NO. 5

PROJECT ; Upper Srepok
LOCATION ; Upper Kr. Buk Damsite
DATE STARTED ; 16-4-1965
DATE COMPLETED ; 28-4-1965

ELEVATION OF SURFACE, 681.63 M
ELEVATION OF BOTTOM 677.63 M

GEOL. LY LOGGED BY K. Shirayama

PIT SIZE : 3.0m x 2.0m

NIPPON KOEI K. K, TOKYO

DATE	DEPTH	ELEV TOP OF STRATUM	CLASSIFICATION OF ROCKS	COLUMNAR SECTION	THICKNESS OF STRATUM	ACCUMLATIVE THICKNESS OF STRATA		DESCRIPTION
	m	681.43 m	Top Soil		0.20 m	0.20 m		Surface Soil
	1	680.53	Clay		0.90	1.10		Reddish brown Eeath (Teree rouge)
	2	679.13	Clay and Earth		1.40	2.50		Yellow clayey Earth with weathered fragments of Basalt
	3	677.63	Earth		1.50	4.00		Half-decomposed Basalt with fresh rock fragments
	4							
	5							
	6							
	7							
	8							
	9							
	10							

GEOLOGICAL RECORD OF TEST PIT

HOLE NO. 6

PROJECT ; Upper Srepok

LOCATION ; Upper Kr. Buk Damsite

DATE STARTED ; 16-4-1965

DATE COMPLETED ; 28-4-1965

PIT SIZE ; 3.0m x 2.0m

ELEVATION OF SURFACE, 685 M.74

ELEVATION OF BOTTOM 682 M74

GEOL. LY LOGGED BY K. Shirayama

NIPPON KOEI K. K, TOKYO

DATE	DEPTH	ELEV. TOP OF STRATUM	CLASSIFICATION OF ROCKS	COLUMNAR SECTION	THICKNESS OF STRATUM	ACCUMLATIVE THICKNESS OF STRATA		DESCRIPTION
	m	685.54 m	Top Soil		0.20 m	0.20 m		Surface Soil
	1		Clay					Reddish brown clayey Earth (Terre rouge)
		684.24			1.30	1.50		
	2		Clay and Earth					Reddish yellow clayey Earth
		682.74			1.50	3.00		
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							

GEOLOGICAL RECORD OF BORE HOLE

HOLE NO. 1

PROJECT : Upper Srepok
LOCATION : Krong Buk Damsite
DATE STARTED 29-11-1963
DATE COMPLETED 30-11-1963
DIAMETER OF HOLE 56 MM
MACHINE : UD-5

ELEVATION OF SURFACE, 457.80 M
ELEV. BOTTOM OF HOLE, 452.80 M
INCLINATION OF HOLE, vert.
DRILLED BY K. Shirayama
GEOL. LY LOGGED BY K. Shirayama

NIPPON KOEI K. K., TOKYO

DATE	DEPTH	ELEV. TOP OF STRATUM	CLASSIFICATION OF ROCKS	COLUMNAR SECTION	THICKNESS OF STRATUM	ACCUMULATIVE THICKNESS OF STRATA	CORE RECOVERY	DESCRIPTION
	m	m			m	m	%	
29/11	1		Earth					Dark grey.
	2	455.20			2.60	2.60		Light grey
30/11	3		Basalt					Light grey, fresh.
	4							
	5	452.80			2.40	5.00		
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							

GEOLOGICAL RECORD OF BORE HOLE

HOLE NO. 2

PROJECT ; Upper Srepok
LOCATION ; Krong Buk Damsite
DATE STARTED ; 4-12-1963
DATE COMPLETED ; 11-12-1964
DIAMETER OF HOLE ; 56 MM
MACHINE ; UD-5

ELEVATION OF SURFACE ; 458.45 M
ELEV. BOTTOM OF HOLE ; 452.45 M
INCLINATION OF HOLE, vert.
DRLLED BY K. Shirayama
GEOL. LY LOGGED BY K. Shirayama

NIPPON KOEI K. K., TOKYO

DATE	DEPTH	ELEV. TOP OF STRATUM	CLASSIFICATION OF ROCKS	COLUMNAR SECTION	THICKNESS OF STRATUM	ACCUMLATIVE THICKNESS OF STRATA	CORE RECOVERY	DESCRIPTION
	m	m			m	m	%	
	1	457.45	Top Soil.		1.00	1.00		brown.
4/12	2		Sandy Earth.					Brown grey.
	3	455.05			2.40	3.40		
11/12	4		Basalt.			W.L		Grey and fresh.
	5							
	6	452.45			2.60	6.00		
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							

GEOLOGICAL RECORD OF BORE HOLE

HOLE NO. 3

PROJECT ; Upper Srepok
LOCATION ; Krong Buk Damsite
DATE STARTED ; 16-12-1963
DATE COMPLETED ; 17-12-1963
DIAMETER OF HOLE; 56 MM
MACHINE ; UD-5

ELEVATION OF SURFACE, 461.00 M
ELEV. BOTTOM OF HOLE, 456 M00
INCLINATION OF HOLE, vert.
DRLLED BY K. Shirayama
GEOL. LY LOGGED BY K. Shirayama

NIPPON KOEI K. K., TOKYO

DATE	DEPTH	ELEV. TOP OF STRATUM	CLASSIFICATION OF ROCKS	COLUMNAR SECTION	THICKNESS OF STRATUM	ACCUMLATIVE THICKNESS OF STRATA	CORE RECOVERY	DESCRIPTION
	m	461.75	Top Soil.		0.25 m	0.25 m	%	(brown).
16/12	1					W.L.		
	2		Gravel.					Containg Clay.
	3	458.75			3.00	3.25		Containing Boulder.
17/12	4		Basalt.					Grey and fresh.
	5	457.00			1.75	5.00		
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							

SUMMARY OF SOIL TEST (Model 1)

No. 1

LOCATION Krong Pach , DATE. , TESTED BY

SAMPLE NUMBER No.			1	2	3	4	5	(Remarks)
BORROW PIT AND DEPTH (m)			1.50	1.50	1.50	1.50	1.50	
OBSERVATION								
PROPERTIES	Natural water content	w (%)						
	Specific gravity of soil	G	2.816	2.814	2.800	-	-	
	Wet density	rt (g/cm³)	1.496	1.525	1.498			
	Dry density	rd (g/cm³)	1.900	1.961	1.927			
	Void ratio	e						
	Degree of saturation	S %						
GRAIN SIZE	PROPORTION Gravel part	(%)	10	9				
	Sand part	(%)	26	26				
	Silt part	(%)	11	12				
	Clay part	(%)	53	53				
	Max. diameter	(mm)						
	60% diameter	D_{60} (mm)						
	10% diamenter	D_{10} (mm)						
	Uniformity coefficient							
	Classification		clay	clay				
CONSISTENCY	Liquid limit	L. L (%)	60.0	57.5	58.5	61.0	64.5	
	Plastic limit	P. L (%)	26.1	29.6	23.4	27.7	28.6	
	Plasticity index	P. I	33.5	27.9	35.1	33.3	36.4	
	Flow index	F. I	19.0	20.0	30.0	25.0	20.5	
	Shrinkage limit	S. L						
PERMEABILITY		K (cm/sec)						
COMPACTION	Optimum water content		27.0	28.8	28.6			
	Max. density $\gamma_{t\ max.}$	(g/cm³)						
SHEARING STRENGTH	Unconfined compression	Compression strength (kg/cm²)						
		Sensitivity						
	Direct compression	Cohesion C (kg/cm²)	0.72	0.60	0.63			
		Internal friction angle, $\phi°$	19	24	35			
	Triaxial compression	Cohesion C (kg/cm²)						
		Internal friction angle, $\phi°$						
CONSOLIDATION	Initial void ratio	e_o						
	Preconsolidation load	Po (kg/cm²)						
	Compression index	Cc						
	Coef. of consolidation	Cr (cm²/sec)						
	Coef. of volume compressibility	Mv (cm²/g)						
	Coef. of permeability	K (cm/sec)						

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SUMMARY OF SOIL TEST (Model 1)

No. 3

LOCATION Upper Krong Buk , DATE. , TESTED BY

							(Remarks)
SAMPLE NUMBER No.			1	2	3	4	
BORROW PIT AND DEPTH (m)			0.10	1.90	1.00	1.50	
OBSERVATION							
PROPERTIES	Natural water content	w (%)	34.0	41.0	42.6	29.2	
	Specific gravity of soil	G					
	Wet density	rt (g/cm³)					
	Dry density	rd (g/cm³)					
	Void ratio	e					
	Degree of saturation	S %					
GRAIN SIZE	PROPORTION Gravel part	(%)	0	13.5	47.8	57.7	
	PROPORTION Sand part	(%)	41.8	36.5	8.2	17.2	
	PROPORTION Silt part	(%)	20.0	20.0	15.7	7.4	
	PROPORTION Clay part	(%)	30.2	30.0	28.3	17.7	
	Max. diameter	(mm)					
	60% diameter D_{60}	(mm)					
	10% diamenter D_{10}	(mm)					
	Uniformity coefficient						
	Classification						
CONSISTENCY	Liquid limit L.L	(%)	52.3	62.0	79.0	67.9	
	Plastic limit P.L	(%)	37.4	45.0	46.8	44.0	
	Plasticity index P.I						
	Flow index F.I						
	Shrinkage limit S.L						
PERMEABILITY		K (cm/sec)					
COMPACTION	Optimum water content						
	Max. density $\gamma_{t\ max.}$	(g/cm³)					
SHEARING STRENGTH	Unconfined compression	Compression strength (kg/cm²)					
		Sensitivity					
	Direct compression	Cohesion C (kg/cm²)					
		Internal friction angle, $\phi°$					
	Triaxial compression	Cohesion C (kg/cm²)					
		Internal friction angle, $\phi°$					
CONSOLIDATION	Initial void ratio	e_o					
	Preconsolidation load	Po (kg/cm²)					
	Compression index	Cc					
	Coef. of consolidation	Cr (cm²/sec)					
	Coef. of volume compressibility	Mv (cm²/g)					
	Coef. of permeability	K (cm/sec)					

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SUMMARY OF SOIL TEST (Model 1)

No. 4

LOCATION Upper Krong Buk , DATE. , TESTED BY

SAMPLE NUMBER No.			5	7	8			(Remarks)
BORROW PIT AND DEPTH (m)			0.20	0.60	2.40			
OBSERVATION								
PROPERTIES	Natural water content	w (%)	35.6	34.8	27.2			
	Specific gravity of soil	G						
	Wet density	rt (g/cm³)						
	Dry density	rd (g/cm³)						
	Void ratio	e						
	Degree of saturation	S %						
GRAIN SIZE	PROPORTION Gravel part	(%)	0	0	18.1			
	PROPORTION Sand part	(%)	13.7	22.0	36.9			
	PROPORTION Silt part	(%)	18.3	31.8	19.3			
	PROPORTION Clay part	(%)	68.0	46.2	25.7			
	Max. diameter	(mm)						
	60% diameter D_{60}	(mm)						
	10% diamenter D_{10}	(mm)						
	Uniformity coefficient							
	Classification							
CONSISTENCY	Liquid limit L.L	(%)	54.4	66.6	55.5			
	Plastic limit P.L	(%)	35.7	42.9	37.6			
	Plasticity index P.I							
	Flow index F.I							
	Shrinkage limit S.L							
PERMEABILITY	K. (cm/sec)							
COMPACTION	Optimum water content							
	Max. density $\gamma_{t\ max.}$ (g/cm³)							
SHEARING STRENGTH	Unconfined compression	Compression strength (kg/cm²)						
		Sensitivity						
	Direct compression	Cohesion C (kg/cm²)						
		Internal friction angle, ϕ°						
	Triaxial compression	Cohesion C (kg/cm²)						
		Internal friction angle, ϕ°						
CONSOLIDATION	Initial void ratio	e_o						
	Preconsolidation load	Po (kg/cm²)						
	Compression index	Cc						
	Coef. of consolidation	Cr (cm²/sec)						
	Coef. of volume compressibility	Mv (cm²/g)						
	Coef. of permeability	K (cm/sec)						

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SUMMARY OF SOIL TEST (Model 1)

No. 5

LOCATION Upper Krong Buk , DATE. , TESTED BY

SAMPLE NUMBER No.			6	9	10		(Remarks)
BORROW PIT AND DEPTH (m)			0.20	2.30	1.50		
OBSERVATION							
PROPERTIES	Natural water content	w (%)	32.8	36.9	59.5		
	Specific gravity of soil	G					
	Wet density	rt (g/cm³)					
	Dry density	rd (g/cm³)					
	Void ratio	e					
	Degree of saturation	S %					
GRAIN SIZE	PROPORTION Gravel part	(%)	0	0	0		
	PROPORTION Sand part	(%)	19.0	30.0	15.0		
	PROPORTION Silt part	(%)	32.8	17.0	40.8		
	PROPORTION Clay part	(%)	48.2	53.0	44.2		
	Max. diameter	(mm)					
	60% diameter D_{60}	(mm)					
	10% diamenter D_{10}	(mm)					
	Uniformity coefficient						
	Classification						
CONSISTENCY	Liquid limit L. L	(%)	52.5	67.9	110.2		
	Plastic limit P. L	(%)	35.1	43.9	62.3		
	Plasticity index P. I						
	Flow index F. I						
	Shrinkage limit S. L						
PERMEABILITY	K (cm/sec)						
COMPACTION	Optimum water content						
	Max. density $\gamma_{t\ max.}$ (g/cm³)						
SHEARING STRENGTH	Unconfined compression	Compression strength (kg/cm²)					
		Sensitivity					
	Direct compression	Cohesion C (kg/cm²)					
		Internal friction angle, ϕ°					
	Triaxial compression	Cohesion C (kg/cm²)					
		Internal friction angle, ϕ°					
CONSOLIDATION	Initial void ratio	e_o					
	Preconsolidation load	Po (kg/cm²)					
	Compression index	Cc					
	Coef. of consolidation	Cr (cm²/sec)					
	Coef. of volume compressibility	Mv (cm²/g)					
	Coef. of permeability	K (cm/sec)					

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SUMMARY OF SOIL TEST (Model 1)

No. 2

LOCATION Krong Buk , DATE. , TESTED BY

			1	2	3	4	5	(Remarks)
SAMPLE NUMBER No.			1	2	3	4	5	
BORROW PIT AND DEPTH (m)			4.00	4.00	4.00	4.00	4.00	
OBSERVATION								
PROPERTIES	Natural water content	w (%)						
	Specific gravity of soil	G	2.791	2.796	-	-	-	
	Wet density	rt (g/cm³)	1.781	1.759	-	-	-	
	Dry density	rd (g/cm³)	1.250	1.118	-	-	-	
	Void ratio	e	-	-	-	-	-	
	Degree of saturation	S %	-	-	-	-	-	
GRAIN SIZE	PROPORTION Gravel part	(%)	8	8	-	-	-	
	Sand part	(%)	25	24	-	-	-	
	Silt part	(%)	12	13	-	-	-	
	Clay part	(%)	55	55	-	-	-	
	Max. diameter	(mm)	-	-	-	-	-	
	60% diameter D_{60}	(mm)	-	-	-	-	-	
	10% diamenter D_{10}	(mm)	-	-	-	-	-	
	Uniformity coefficient		-	-	-	-	-	
	Classification		clay	clay	-	-	-	
CONSISTENCY	Liquid limit L.L	(%)	92.5	89.5	89.5	90.0	88.5	
	Plastic limit P.L	(%)	39.7	39.4	41.6	40.5	41.5	
	Plasticity index P.I		52.8	50.1	47.9	49.5	47.0	
	Flow index F.I		35.5	34.0	37.5	31.0	33.0	
	Shrinkage limit S.L		-	-	-	-	-	
PERMEABILITY		K (cm/sec)	-	-	-	-	-	
COMPACTION	Optimum water content		42.6	48.0	-	-	-	
	Max. density $\gamma_{t\ max.}$	(g/cm³)	-	-	-	-	-	
SHEARING STRENGTH	Unconfined compression	Compression strength (kg/cm²)	-	-	-	-	-	
		Sensitivity	-	-	-	-	-	
	Direct compression	Cohesion C (kg/cm²)	0.30	0.48	0.49	-	-	
		Internal friction angle, $\phi°$	32	15	10	-	-	
	Triaxial compression	Cohesion C (kg/cm²)	-	-	-	-	-	
		Internal friction angle, $\phi°$	-	-	-	-	-	
CONSOLIDATION	Initial void ratio	e_o	-	-	-	-	-	
	Preconsolidation load	Po (kg/cm²)	-	-	-	-	-	
	Compression index	Cc	-	-	-	-	-	
	Coef. of consolidation	Cr (cm²/sec)	-	-	-	-	-	
	Coef. of volume compressibility	Mv (cm²/g)	-	-	-	-	-	
	Coef. of permeability	K (cm/sec)	-	-	-	-	-	

N. K. Form No. 3100

SUMMARY OF SOIL TEST (Model 1) No. 3

LOCATION Krong Buk , DATE. , TESTED BY

SAMPLE NUMBER No.			1	2	3	4	5	(Remarks)
BORROW PIT AND DEPTH (m)			1.00	1.00	1.00	1.00	1.00	
OBSERVATION								
PROPERTIES	Natural water content	w (%)						
	Specific gravity of soil	G	2.994	3.080	3.031			
	Wet density	rt (g/cm³)	1.810	1.830				
	Dry density	rd (g/cm³)	1.326	1.310				
	Void ratio	e						
	Degree of saturation	S %						
GRAIN SIZE	PROPORTION Gravel part	(%)	7	8				
	Sand part	(%)	27	26				
	Silt part	(%)	11	12				
	Clay part	(%)	55	54				
	Max. diameter	(mm)						
	60% diameter D_{60}	(mm)						
	10% diamenter D_{10}	(mm)						
	Uniformity coefficient							
	Classification							
CONSISTENCY	Liquid limit	L. L (%)	101.0	83.0	90.0	82.5	22.5	
	Plastic limit	P. L (%)	33.9	36.9	37.3	37.2	37.9	
	Plasticity index	P. I	67.1	46.1	52.7	45.8	40.1	
	Flow index	F. I	28.5	19.0	29.5	24.5	21.0	
	Shrinkage limit	S. L						
PERMEABILITY		K (cm/sec)						
COMPACTION	Optimum water content		36.6	40.0				
	Max. density $\gamma_{t\ max.}$	(g/cm³)						
SHEARING STRENGTH	Unconfined compression	Compression strength (kg/cm²)						
		Sensitivity						
	Direct compression	Cohesion C (kg/cm²)	0.96	1.40	0.60			
		Internal friction angle, $\phi°$	14	12	50			
	Triaxial compression	Cohesion C (kg/cm²)						
		Internal friction angle, $\phi°$						
CONSOLIDATION	Initial void ratio	e_o						
	Preconsolidation load	Po (kg/cm²)						
	Compression index	Cc						
	Coef. of consolidation	Cr (cm²/sec)						
	Coef. of volume compressibility	Mv (cm²/g)						
	Coef. of permeability	K (cm/sec)						

N. K. Form No. 3100

I. II. METEOROLOGICAL AND HYDROLOGICAL DATA

C O N T E N T S

1. BASIN MAP

2. RIVER LONGITUDINAL SECTION

1) KRONG BUK

2) KRONG ANA

3. RIVER CROSS SECTION

1) KRONG BUK

2) KRONG ANA

4. RUN-OFF MEASUREMENT RECORD

1) KRONG PACH GAUGING STATION

2) KRONG BUK GAUGING STATION

3) KANA GAUGING STATION

4) BAN BUR GAUGING STATION

5. DISCHARGE RATING CURVE

1) KRONG PACH GAUGING STATION

2) KRONG BUK GAUGING STATION

3) KANA GAUGING STATION

4) BAN BUR GAUGING STATION

6. MONTHLY DISCHARGE

   1) KRONG PACH GAUGING STATION

   2) KRONG BUK GAUGING STATION

   3) KANA GAUGING STATION

   4) BAN BUR GAUGING STATION

7. WATER LEVEL AND DISCHARGE

   1) KRONG PACH GAUGING STATION

   2) KRONG BUK GAUGING STATION

   3) KANA GAUGING STATION

   4) BAN BUR GAUGING STATION

8. RUN-OFF DURATION CURVE

   1) KRONG PACH GAUGING STATION

   2) KRONG BUK GAUGING STATION

   3) KANA GAUGING STATION

   4) BAN BUR GAUGING STATION

9. HYDROGRAPH

   1) KRONG PACH GAUGING STATION

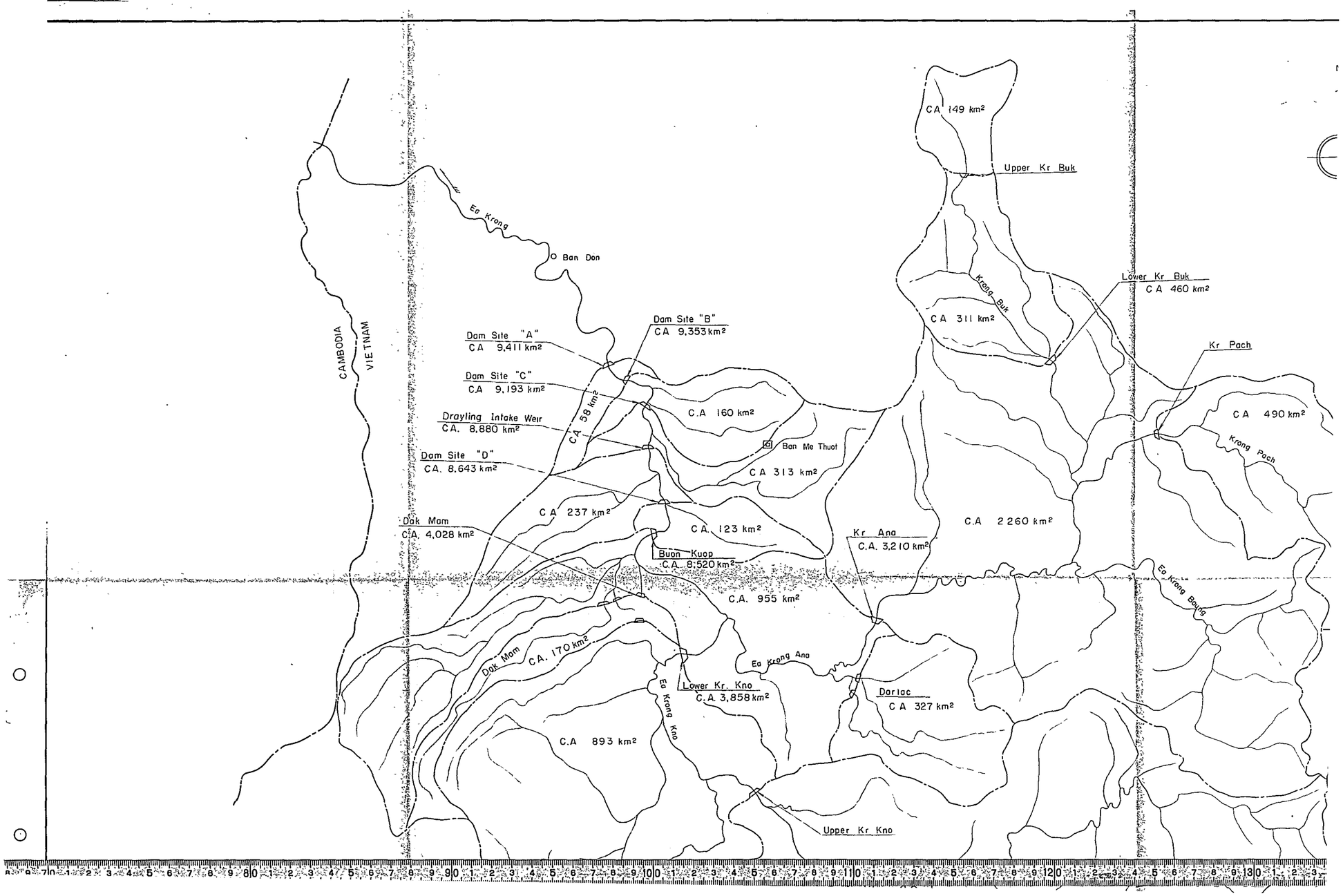
   2) KRONG BUK GAUGING STATION

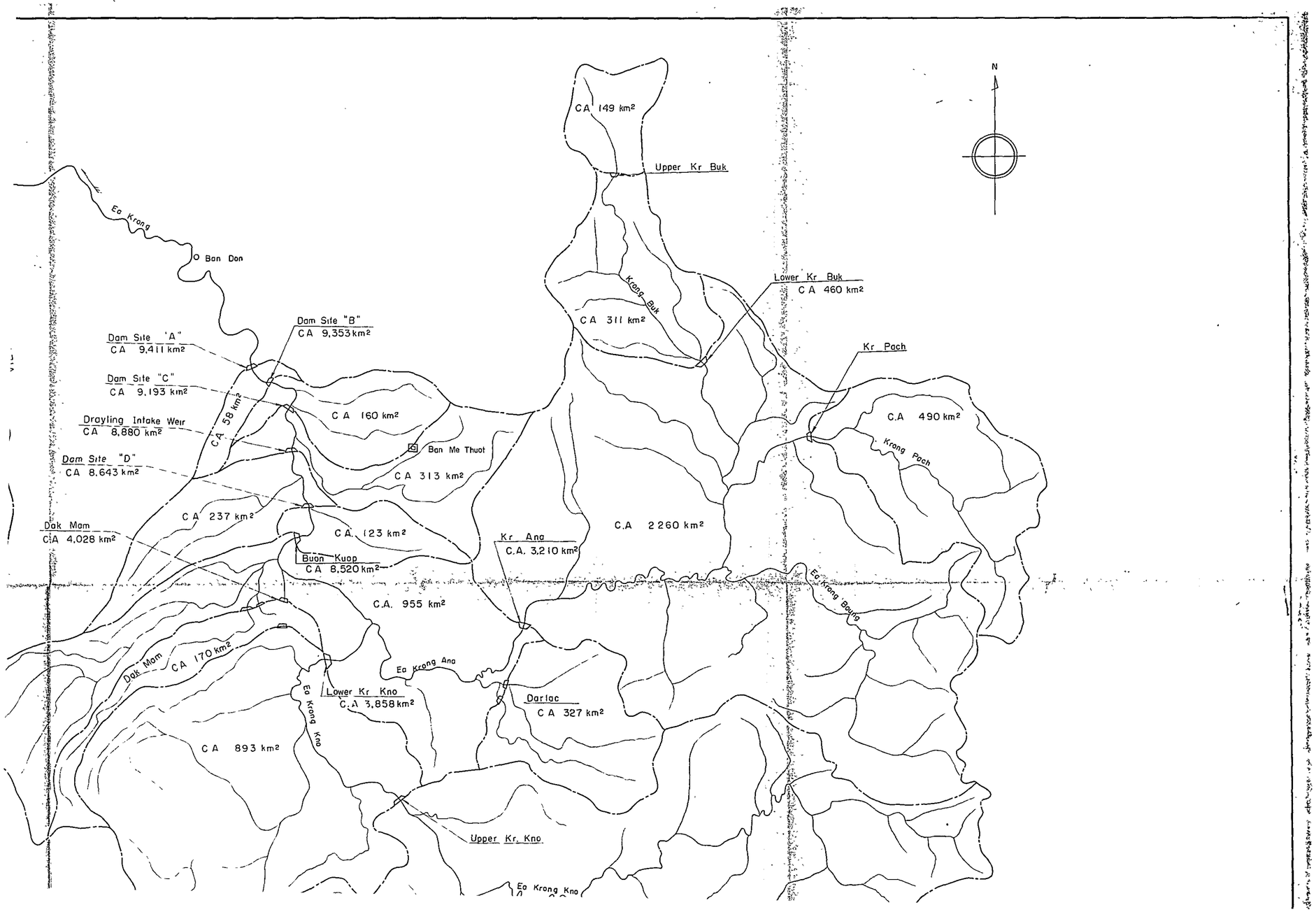
   3) KANA GAUGING STATION

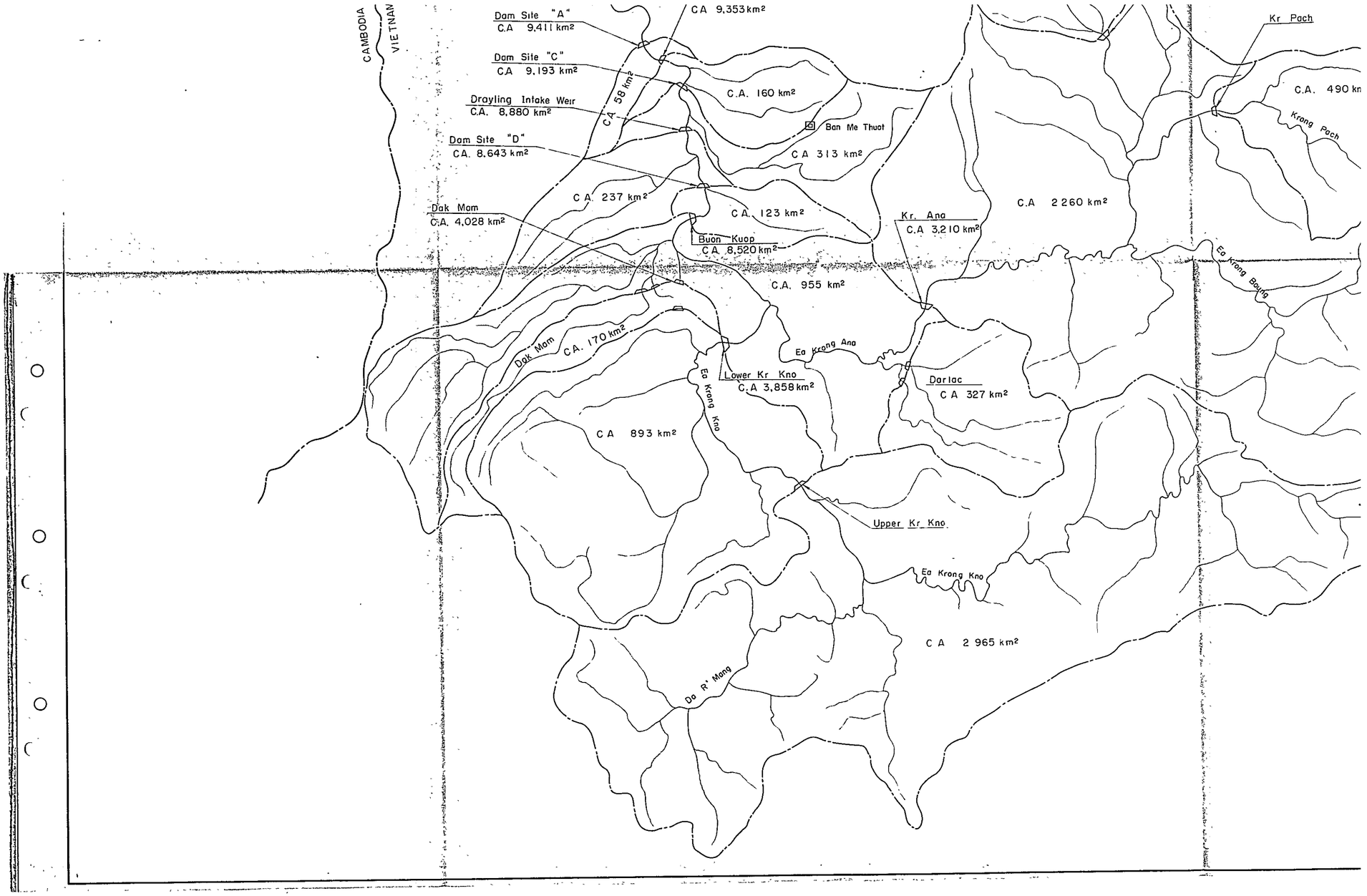
   4) BAN BUR GAUGING STATION

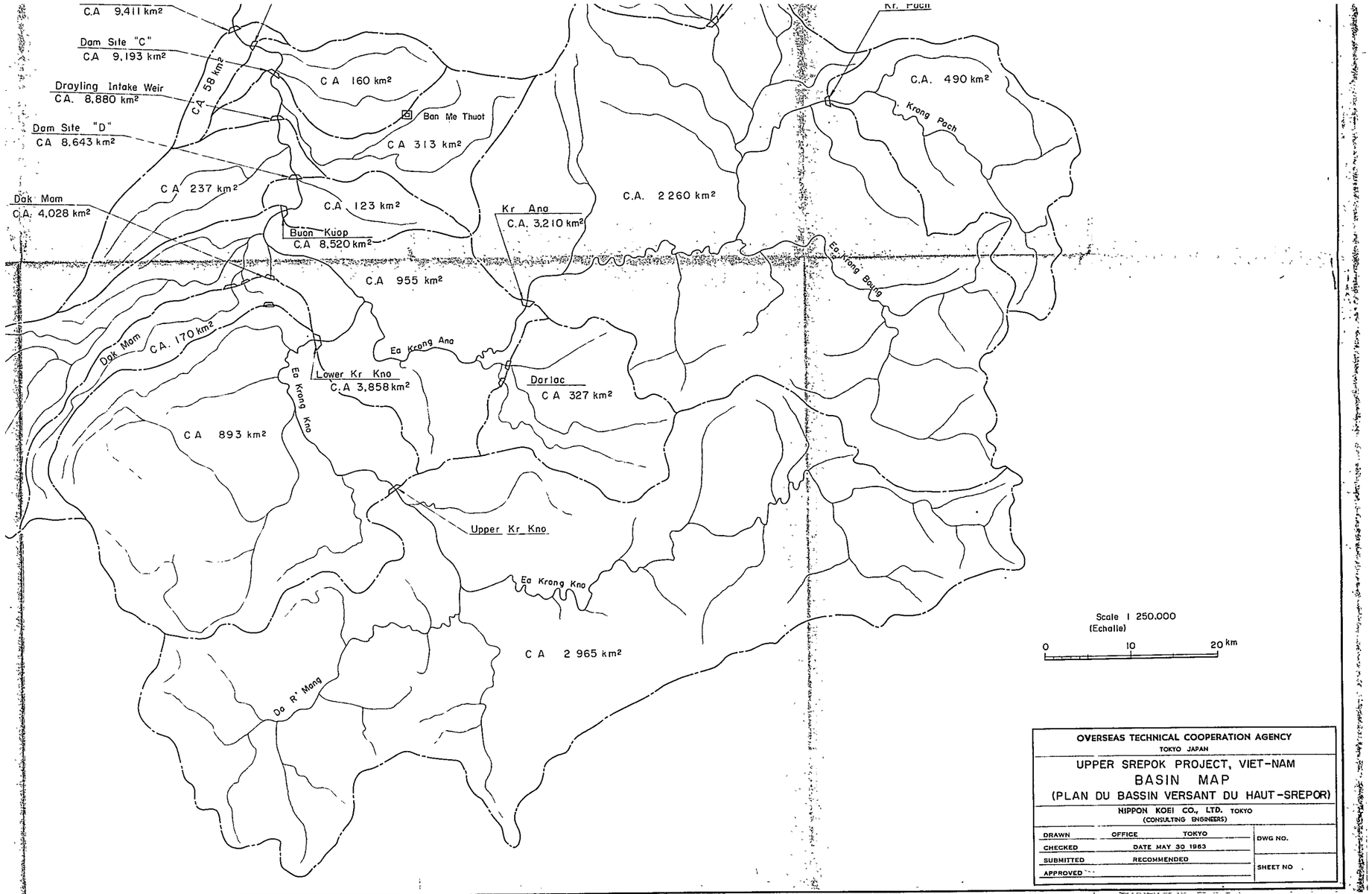
10. TABLE OF MONTHLY RAINFALL IN BAN ME THUOT

11. METEOROLOGICAL RECORD IN BAN ME THUOT

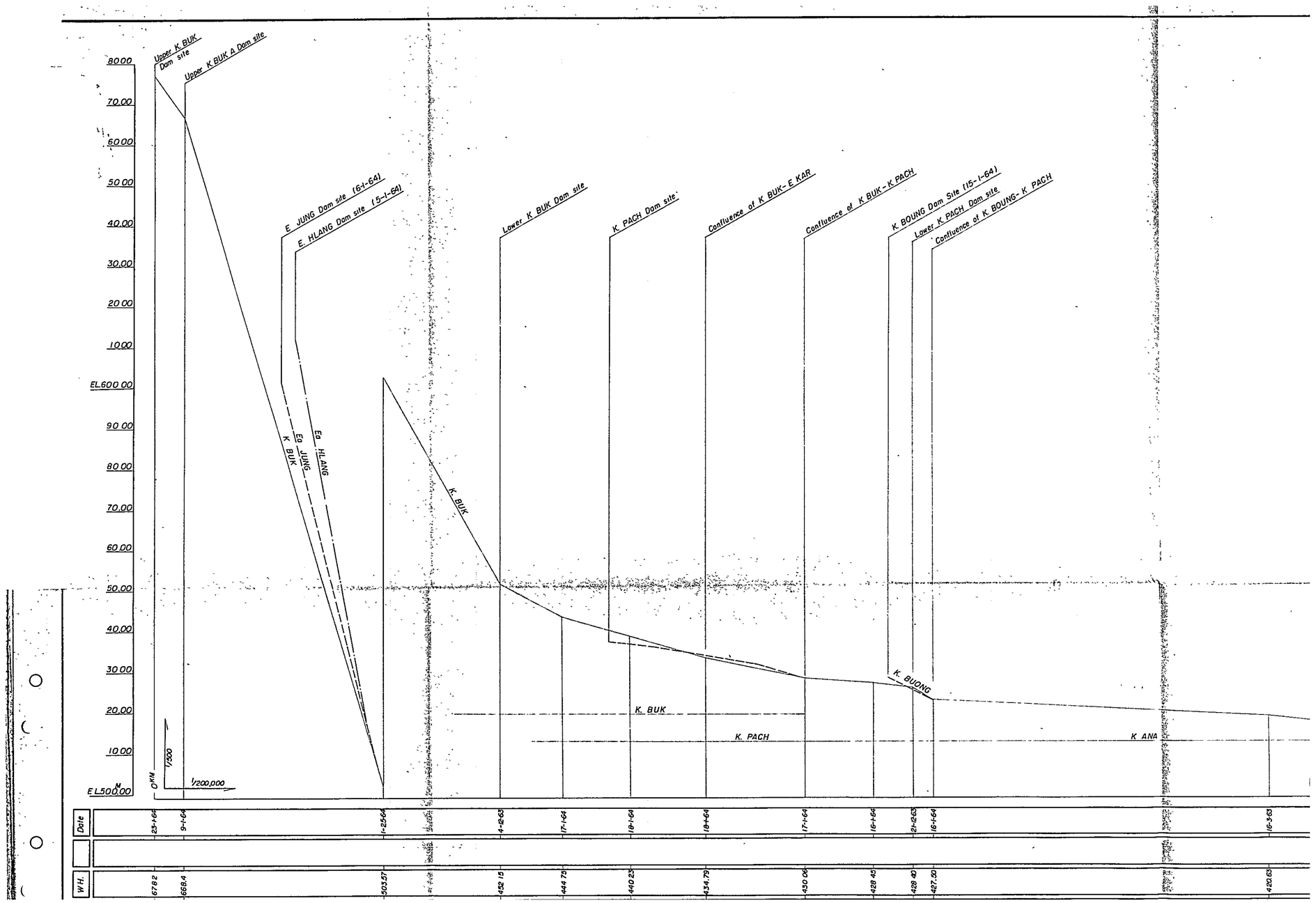

CAMBODIA
VIETNAM
Ea Krong
Ban Don
Dam Site "A"
CA 9,411 km²
Dam Site "B"
CA 9,353 km²
Dam Site "C"
CA 9,193 km²
Drayling Intake Weir
CA. 8,880 km²
Dam Site "D"
CA. 8,643 km²
Dak Mam
CA. 4,028 km²
CA 58 km²
C.A 160 km²
Ban Me Thuot
CA 313 km²
CA 237 km²
C.A. 123 km²
Buon Kuop
C.A. 8,520 km²
C.A. 955 km²
Dak Mam
CA. 170 km²
Ea Krong Kno
Lower Kr. Kno
C.A. 3,858 km²
C.A 893 km²
Upper Kr Kno
Ea Krong Ana
CA 149 km²
Upper Kr Buk
Krong Buk
CA 311 km²
Lower Kr Buk
C A 460 km²
Kr Pach
CA 490 km²
Krong Pach
C.A 2 260 km²
Kr Ana
C.A. 3,210 km²
Ea Krong Buk'lg
Dorlac
C A 327 km²

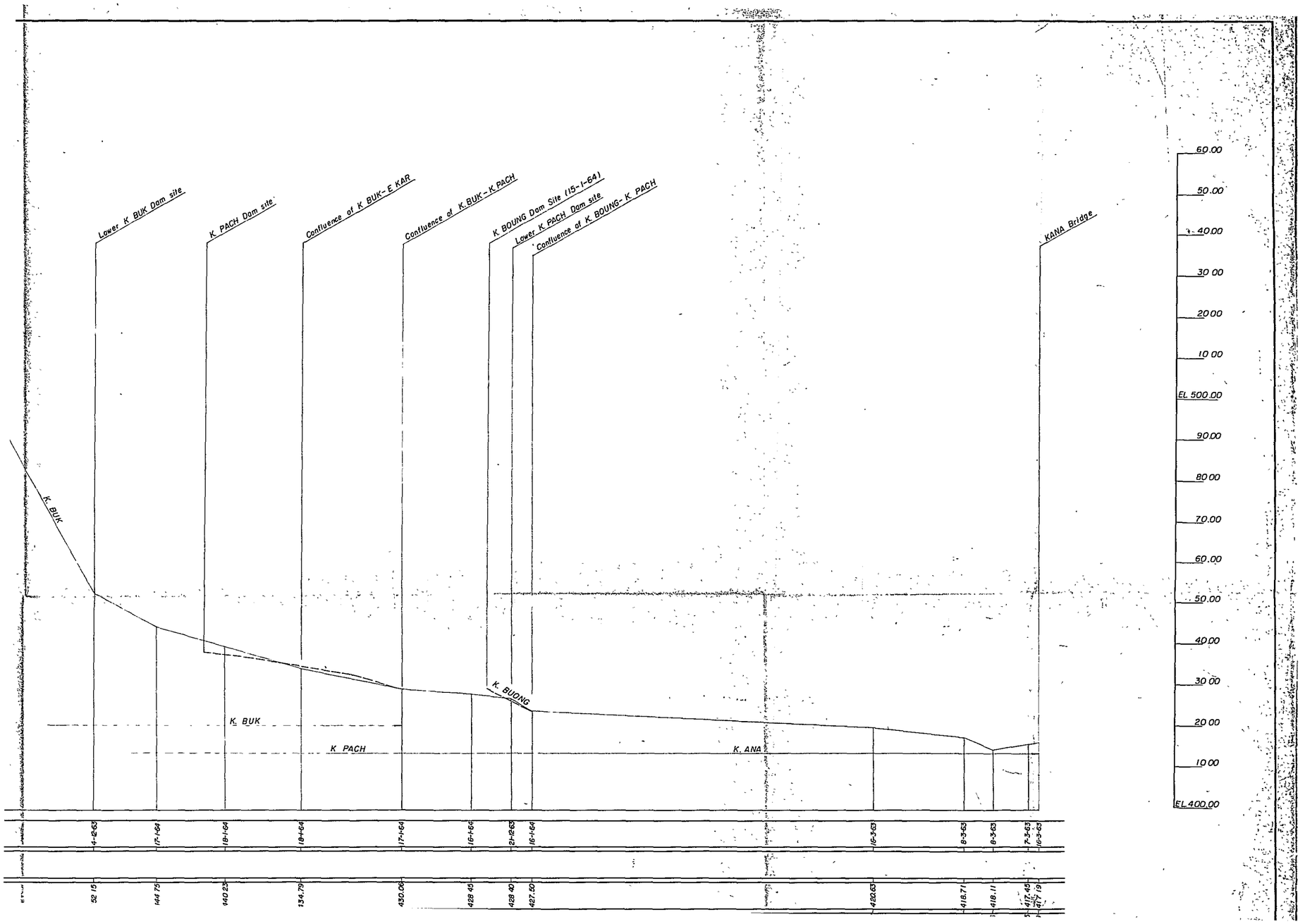

N
CA 149 km²
Upper Kr Buk
Ea Krong
Ban Don
Dam Site "B"
CA 9,353 km²
Dam Site "A"
CA 9,411 km²
Dam Site "C"
CA 9,193 km²
Drayling Intake Weir
CA 8,880 km²
Dam Site "D"
CA 8,643 km²
CA 58 km²
C A 160 km²
Ban Me Thuot
C A 313 km²
Krong Buk
CA 311 km²
Lower Kr Buk
C A 460 km²
Kr Pach
C.A 490 km²
Krong Pach
CA 237 km²
Dak Mam
CA 4,028 km²
CA 123 km²
Buon Kuop
CA 8,520 km²
Kr Ana
C.A. 3,210 km²
C.A 2260 km²
C.A. 955 km²
Ea Krong Bouha
Dak Mam
CA 170 km²
Ea Krong Ana
Lower Kr Kno
C.A 3,858 km²
Ea Krong Kno
Darlac
C A 327 km²
CA 893 km²
Upper Kr. Kno
Ea Krong Kno


CAMBODIA
VIETNAM
Dam Site "A"
C.A 9,411 km²
CA 9,353km²
Dam Site "C"
CA 9,193 km²
Drayling Intake Weir
C.A. 8,880 km²
CA 58 km²
C.A. 160 km²
Ban Me Thuot
Dam Site "D"
CA. 8.643 km²
C A 313 km²
C A 237 km²
Dak Mam
C.A. 4,028 km²
C A 123 km²
Kr. Ana
C.A 3,210 km²
Buon Kuop
CA 8,520km²
C.A 2260 km²
C.A. 955 km²
Kr Pach
C.A. 490 km
Krong Pach
Ea Krong Buong
Dak Mam
CA. 170 km²
Ea Krong Ana
Lower Kr Kno
C.A 3,858km²
Darlac
C A 327 km²
Ea Krong Kno
C A 893 km²
Upper Kr Kno
Ea Krong Kno
C A 2 965 km²
Da R' Mang



OVERSEAS TECHNICAL COOPERATION AGENCY TOKYO JAPAN	
UPPER SREPOK PROJECT, VIET-NAM BASIN MAP (PLAN DU BASSIN VERSANT DU HAUT-SREPOR)	
NIPPON KOEI CO., LTD. TOKYO (CONSULTING ENGINEERS)	
DRAWN OFFICE TOKYO	DWG NO.
CHECKED DATE MAY 30 1963	
SUBMITTED RECOMMENDED	SHEET NO.
APPROVED	


Upper K BUK Dam site
Upper K BUK A Dam site
E. JUNG Dam site (6-1-64)
E. HLANG Dam site (5-1-64)
Lower K BUK Dam site
K PACH Dam site
Confluence of K BUK - E KAR
Confluence of K BUK - K PACH
K BOUNG Dam Site (15-1-64)
Lower K PACH Dam site
Confluence of K BOUNG - K PACH
Eg. HLANG
Eg. JUNG
K BUK
K. BUK
K. BUONG
K. BUK
K. PACH
K ANA
8000
70.00
60.00
50.00
40.00
30.00
20.00
10.00
EL600.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
EL500.00
0 KM
1/500
1/200,000
Date
W.H.
23-1-64
9-1-64
12-5-64
4-2-63
17-1-64
18-1-64
18-1-64
17-1-64
16-1-64
21-2-63
16-1-64
16-3-63
678.2
668.4
503.57
482.15
444.75
440.23
434.79
430.06
428.45
428.40
427.50
420.63


Lower K BUK Dam site
K PACH Dam site
Confluence of K BUK- E KAR
Confluence of K BUK- K PACH
K BOUNG Dam Site (15-1-64)
Lower K PACH Dam site
Confluence of K BOUNG- K PACH
KANA Bridge
K BUK
K BUONG
K BUK
K PACH
K ANA
60.00
50.00
40.00
30 00
20 00
10 00
EL 500.00
90.00
80 00
70.00
60.00
50.00
40.00
30 00
20 00
10 00
EL 400.00
4-12-63
17-1-64
18-1-64
18-1-64
17-1-64
16-1-64
21-12-63
16-1-64
16-3-63
8-3-63
8-3-63
7-3-63
16-3-63
52.15
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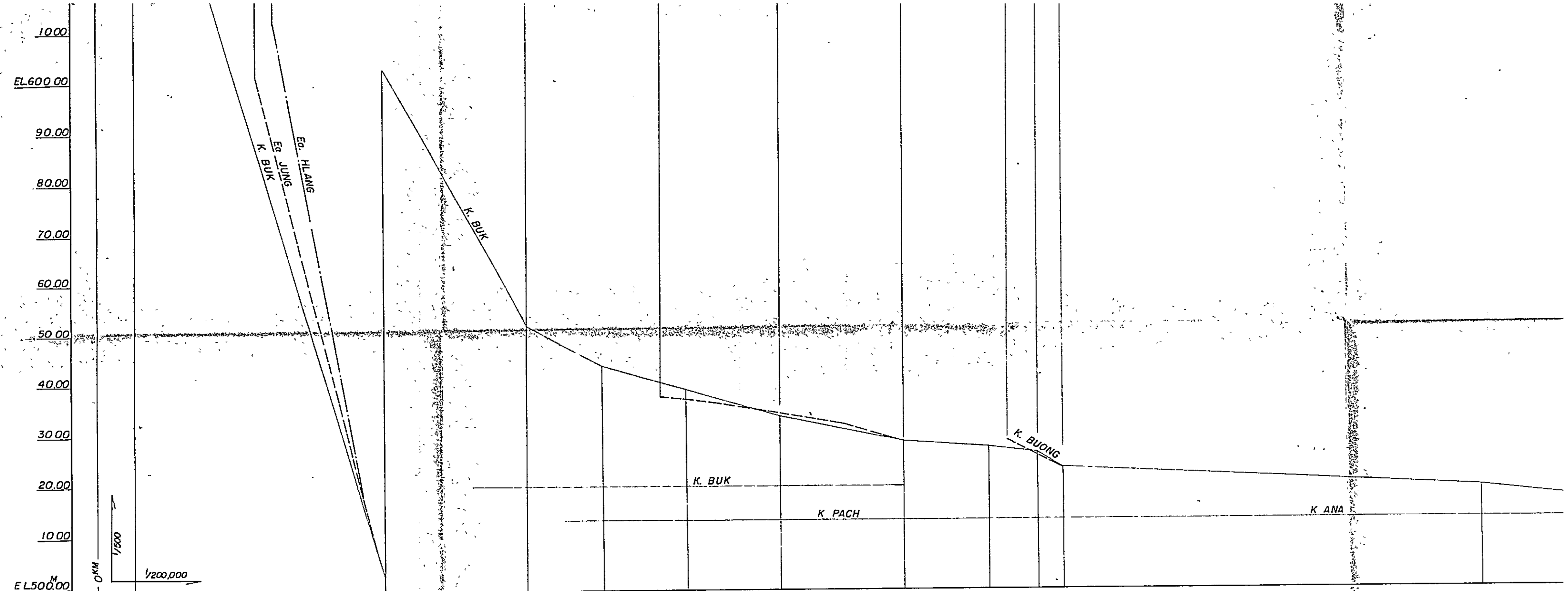
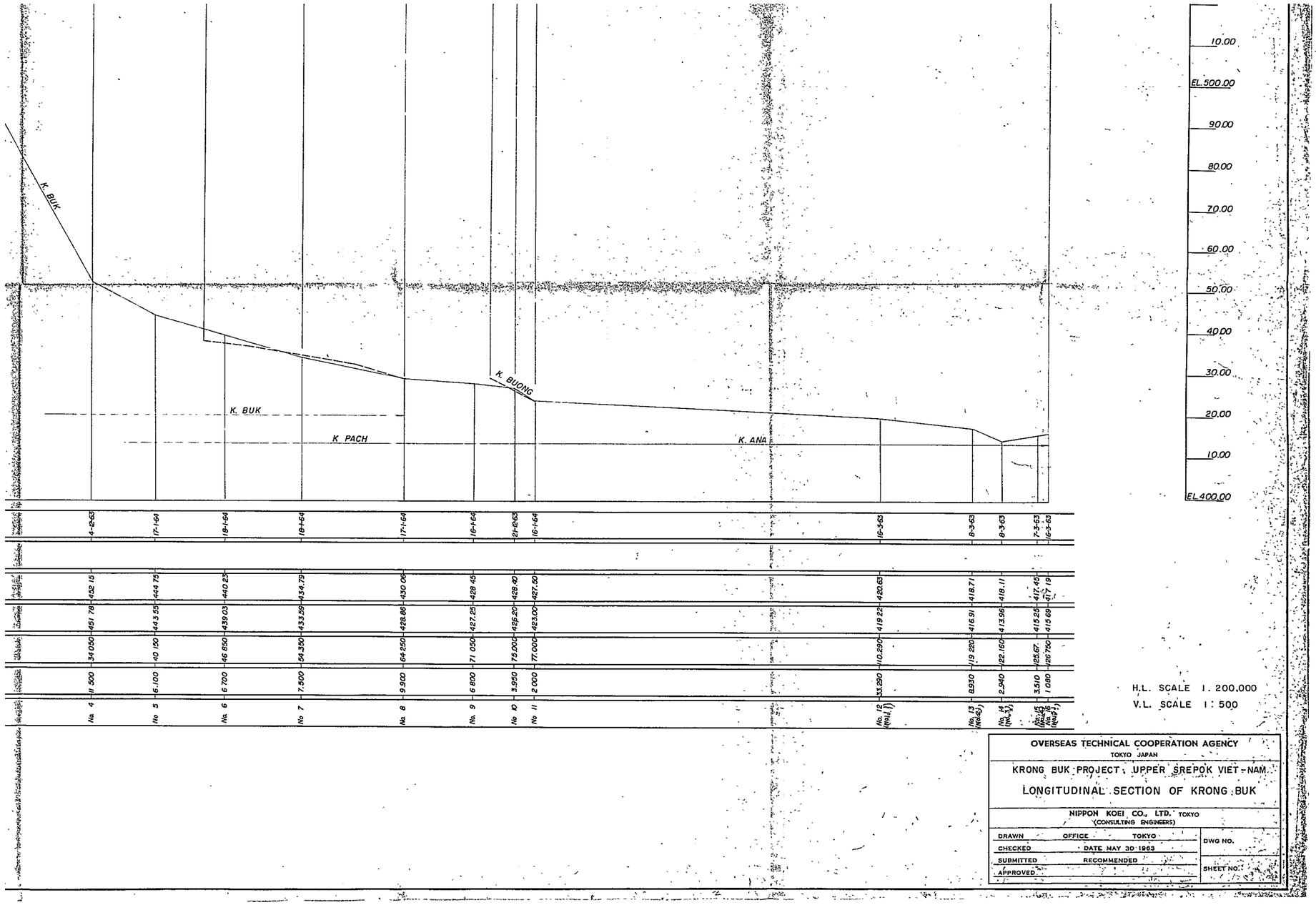
427.60
420.63
418.71
418.11
417.45
417.19



S.P.	P.D	A.D	R.B.H	W.H.		Date
No. 1	0.000	0.000	677.0	678.2		23-1-64
No. 2	2.900	2.900	667.2	668.4		9-1-64
No. 3	19.650	22.550	502.97	503.57		1-25-64
No. 4	11.500	34.050	451.78	452.15		4-12-63
No. 5	6.100	40.150	443.55	444.75		17-1-64
No. 6	6.700	46.850	439.03	440.23		18-1-64
No. 7	7.500	54.350	433.59	434.79		18-1-64
No. 8	9.900	64.250	428.86	430.06		17-1-64
No. 9	6.800	71.050	427.25	428.45		16-1-64
No. 10	3.950	75.000	426.20	428.40		21-12-63
No. 11	2.000	77.000	423.00	427.50		16-1-64
No. 12 (Final)	33.290	110.290	419.22	420.63		16-3-63

:24



	No 4	No 5	No 6	No 7	No 8	No. 9	No 10	No 11	No. 12 (Rail.)	No. 13 (Road)	No. 14 (Rail.)	No. 15 (Rail.)	No. 16 (Road)
	4-12-63	17-1-64	18-1-64	18-1-64	17-1-64	16-1-64	21-12-63	16-1-64	16-3-63	8-3-63	8-3-63	7-3-63	16-3-63
	432.15	444.75	440.23	434.79	430.06	428.45	428.40	427.50	420.63	418.71	418.11	417.45	417.19
	451.78	443.55	439.03	433.59	428.86	427.25	426.20	423.00	419.23	416.91	413.96	415.25	415.69
	34.050	40.150	46.850	54.350	64.250	71.050	75.000	77.000	110.290	119.220	122.160	125.67	126.790
	11.500	6.100	6.700	7.500	9.900	6.800	3.950	2.000	33.290	8.930	2.940	3.510	1.080

H.L. SCALE 1. 200.000
V.L. SCALE 1 : 500

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO JAPAN

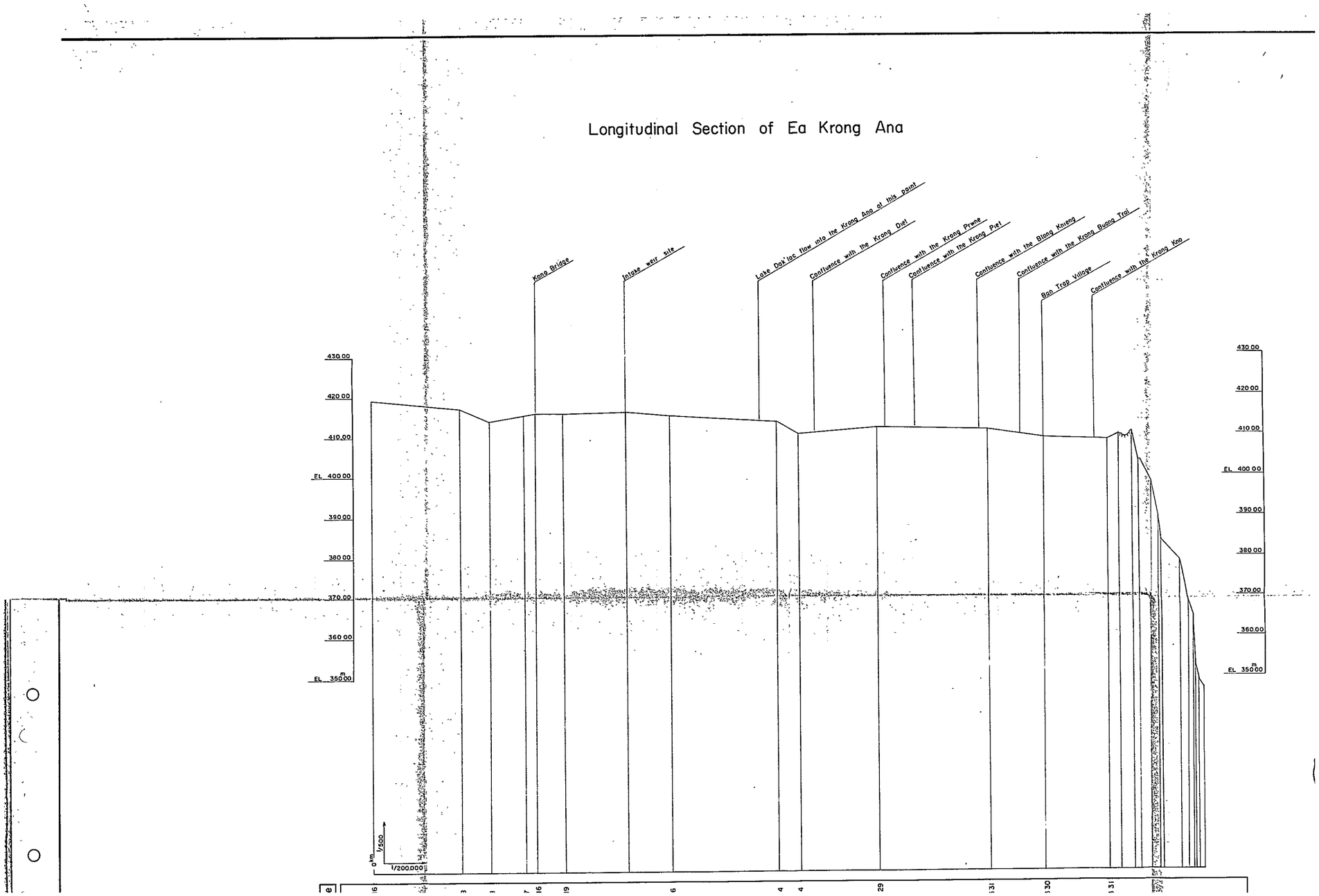
KRONG BUK PROJECT, UPPER SREPOK VIET-NAM

LONGITUDINAL SECTION OF KRONG BUK

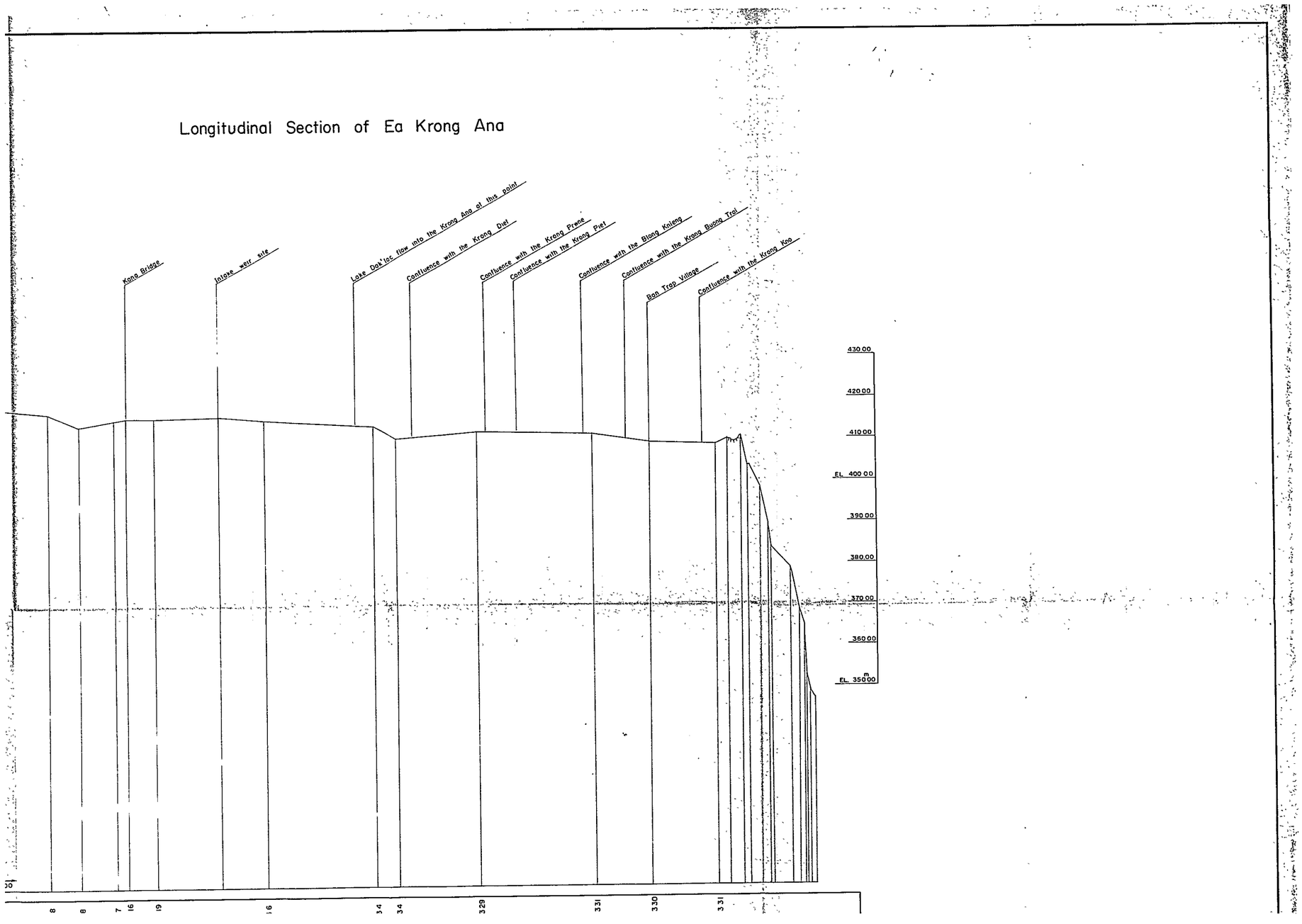
NIPPON KOEI CO., LTD. TOKYO
(CONSULTING ENGINEERS)

DRAWN	OFFICE TOKYO	DWG NO.
CHECKED	DATE MAY 30 1963	
SUBMITTED	RECOMMENDED	SHEET NO.
APPROVED		

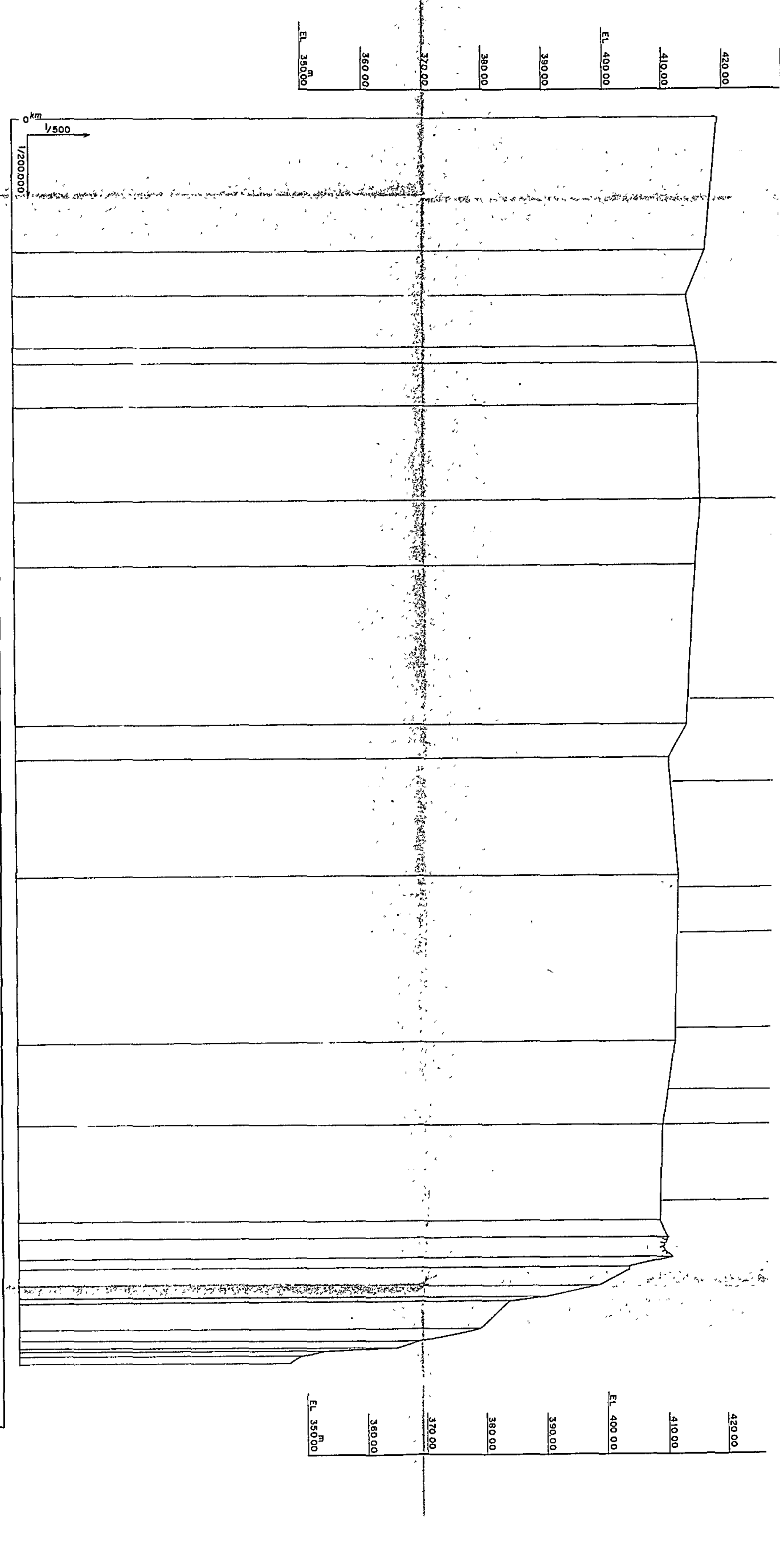
Longitudinal Section of Ea Krong Ana

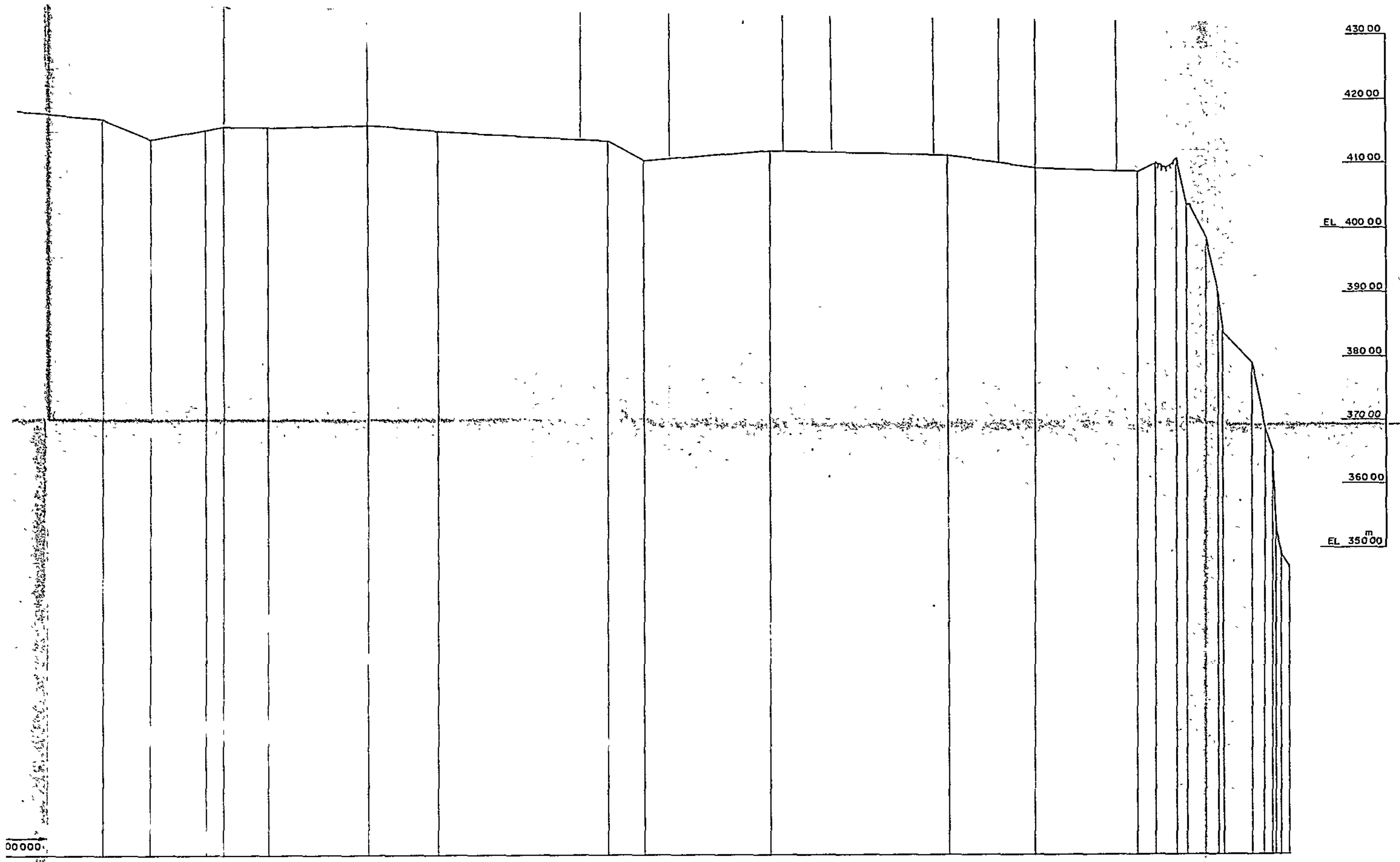


Longitudinal Section of Ea Krong Ana



S.P.	P.D.	A.D.	R.B.H.	W.H.		Date
NO 1	0000	0000	419 22	420.63		3.16
NO 2	8 930	8 930	416 91	418 71		3 8
NO 3	2 940	11 870	413 96	418.11		3 8
NO 4	3 510	15 380	415.25	417 45		3 7
NO 5	1 080	16 460	415 69	417 19		3 16
NO 5'	2 840	19 300	415 65	417 00		3 19
NO 6	6 300	25 600	415 86	416 41		
NO. 7	4 350	29 950	415.17	416.27		3 6
NO 9	10.780	40 730	413 73	415 43		3 4
NO 10	2.230	42 960	410 51	415.21		3 4
NO 11	7 950	50 910	411 85	413 86		3 29
NO 13	11 240	62 150	411 43	412 53		3 31
NO 15	5 610	67 760	409 15	412 35		3 30
NO 16	6 430	74 190	408 69	411.90		3 31
NO. 17	1,110	75 300	410.10	411.40		
NO 18	1 390	76 690	410 50	411 30		
NO 19	0 610	77 300	403.90	405 00		
NO.20	1,170	78,470	399 10	400.00		
NO 21	0 960	79 430	389.30	390.00		
NO 22	0 530	79 960	383 80	385 00		
NO 23	1 530	81 490	379 20	380 00		
NO 24	0 370	82 280	368 70	370 00		
NO 25	0 550	82 830	364 10	365.00		
NO 26	0 130	82 960	353 60	355 00		
NO 27	0 350	83 310	349 30	350 00		
NO 28	0 450	83 760	347 10	348 00		





NO 2	8 930	8 930	416 91	418 71	3 8
NO 3	2 940	11 870	413 96	418 11	3 8
NO 4	3 510	15 380	415 25	417 45	3 7
NO 5	1 080	16 460	415 69	417 19	3 16
NO 5'	2 840	19 300	415 65	417 00	3 19
NO 6	6 300	25 600	415 86	416 41	
NO 7	4 350	29 950	415 17	416.27	3 6
NO 9	10 780	40 730	413 73	415 43	3 4
NO 10	2.230	42 960	410 51	415.21	3 4
NO 11	7 950	50 910	411 85	413 86	3 29
NO 13	11 240	62 150	411 43	412.53	3.31
NO 15	5 610	67 760	409.15	412.35	3 30
NO 16	6 430	74.190	408 69	411.90	3.31
NO.17	1,110	75.300	410 10	411 40	
NO 18	1 390	76 690	410 50	411.30	
NO 19	0610	77,300	403.90	405.00	
NO.20	1,170	78.470	399.10	400.00	
NO 21	0 960	79 430	389.30	390.00	
NO 22	0 530	79 960	383.80	385.00	
NO 23	1 530	81 490	379.20	380.00	
NO 24	0 370	82.280	368.70	370 00	
NO 25	0.550	82 830	364 10	365.00	
NO 26	0.130	82 960	353 60	355.00	
NO.27	0 350	83.310	349.30	350.00	
NO.28	0 450	83.760	347.10	348.00	

H L SCALE 1 200,000
V L SCALE 1 500

OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO JAPAN

UPPER SREPOK–DAR LAC PROJECT

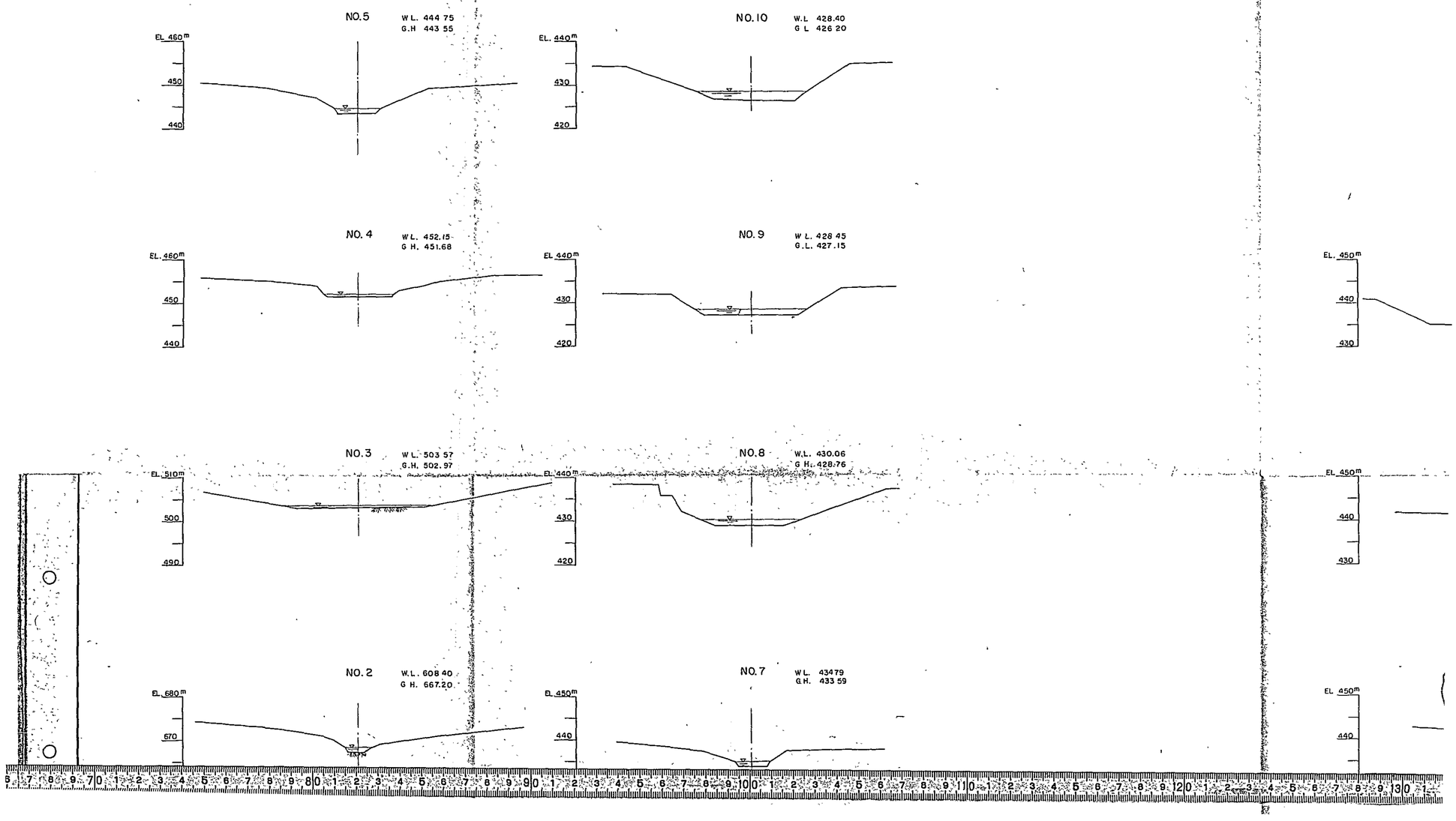
LONGITUDINAL SECTION OF EA KRONG ANA

NIPPON KOEI CO., LTD. TOKYO
(CONSULTING ENGINEERS)

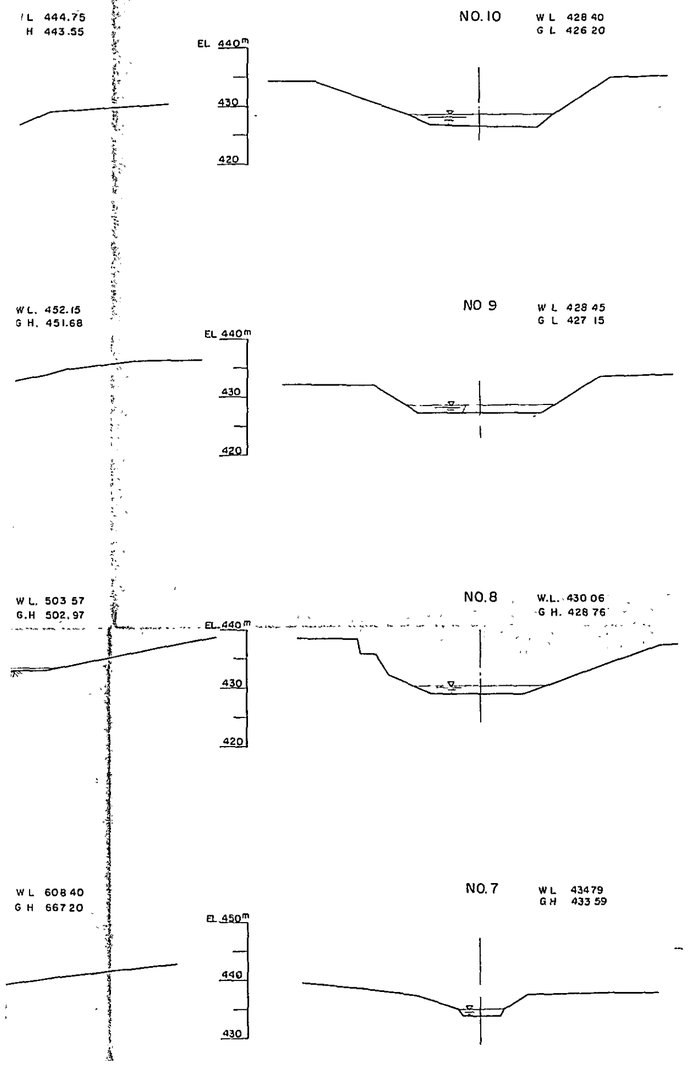
DRAWN	OFFICE TOKYO	DWG NO
CHECKED	DATE MAY 30 1963	
SUBMITTED	RECOMMENDED	SHEET NO
APPROVED		

CROSS SECTION OF KRONG BUK

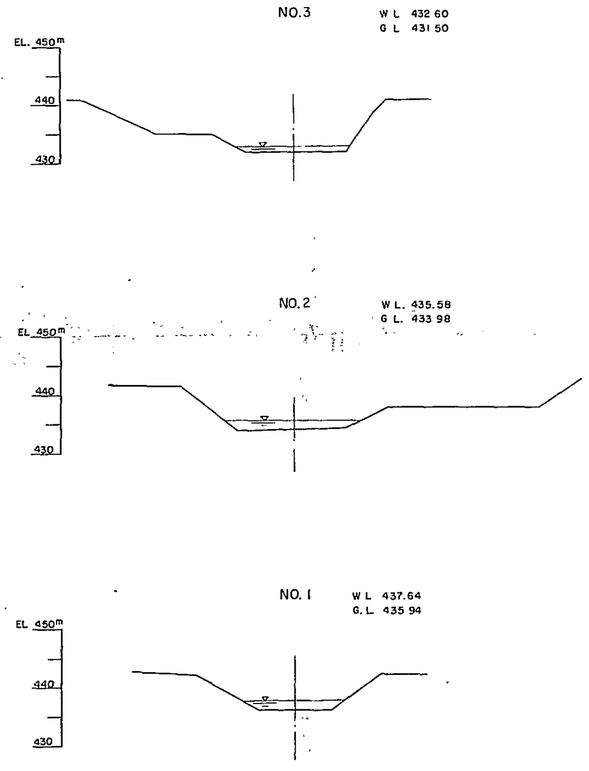
CROSS SE



CROSS SECTION OF KRONG BUK



CROSS SECTION OF KRONG PACH



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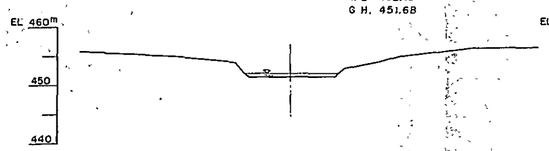
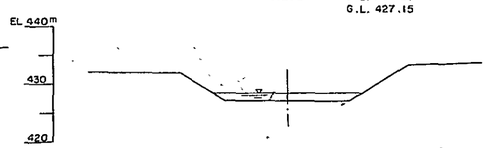
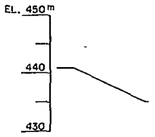


NO. 9 W.L. 428 45 G.L. 427.15





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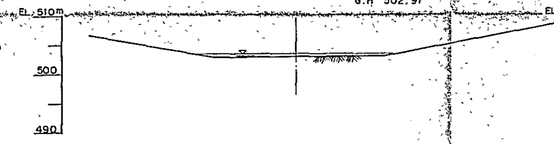

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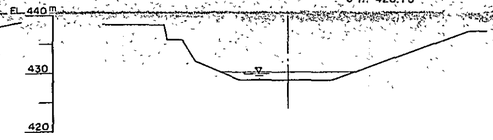

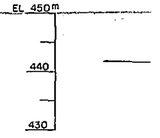

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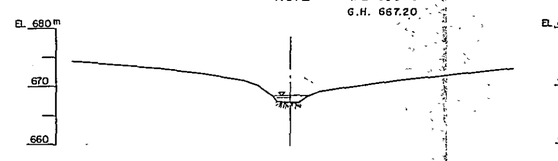

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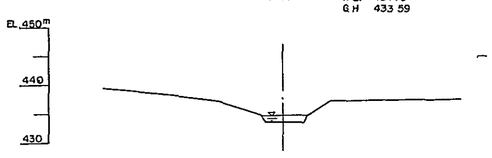

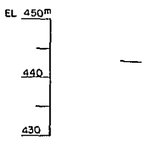

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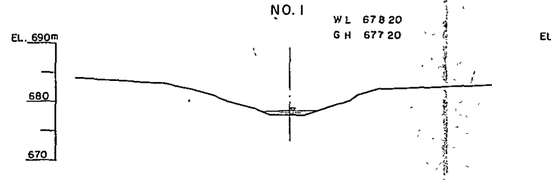

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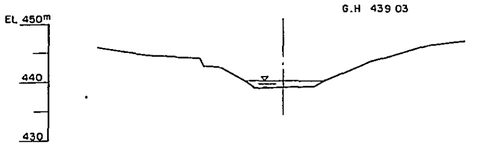

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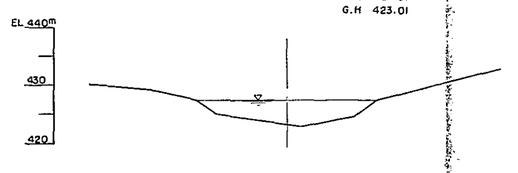
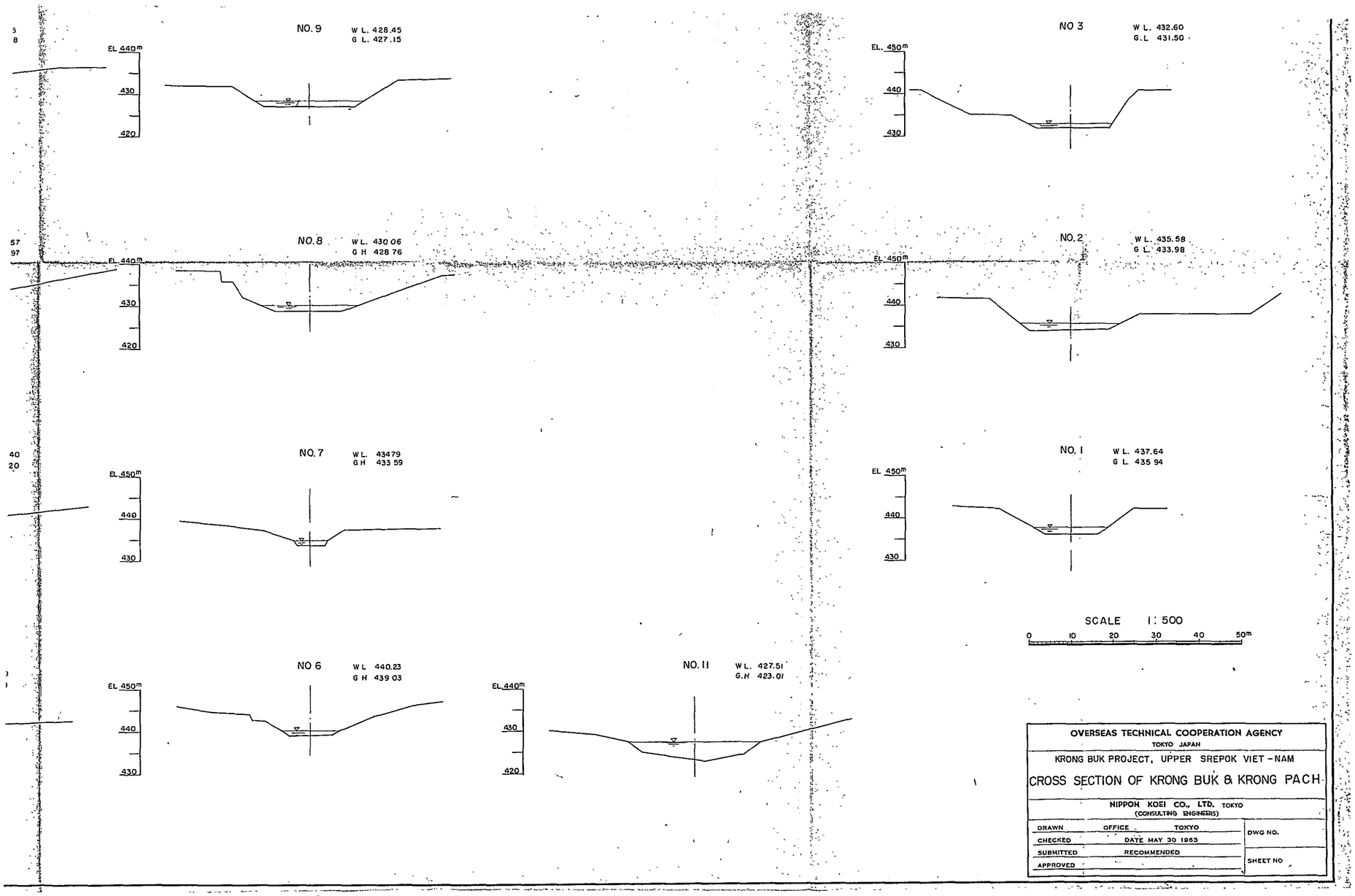




OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO JAPAN

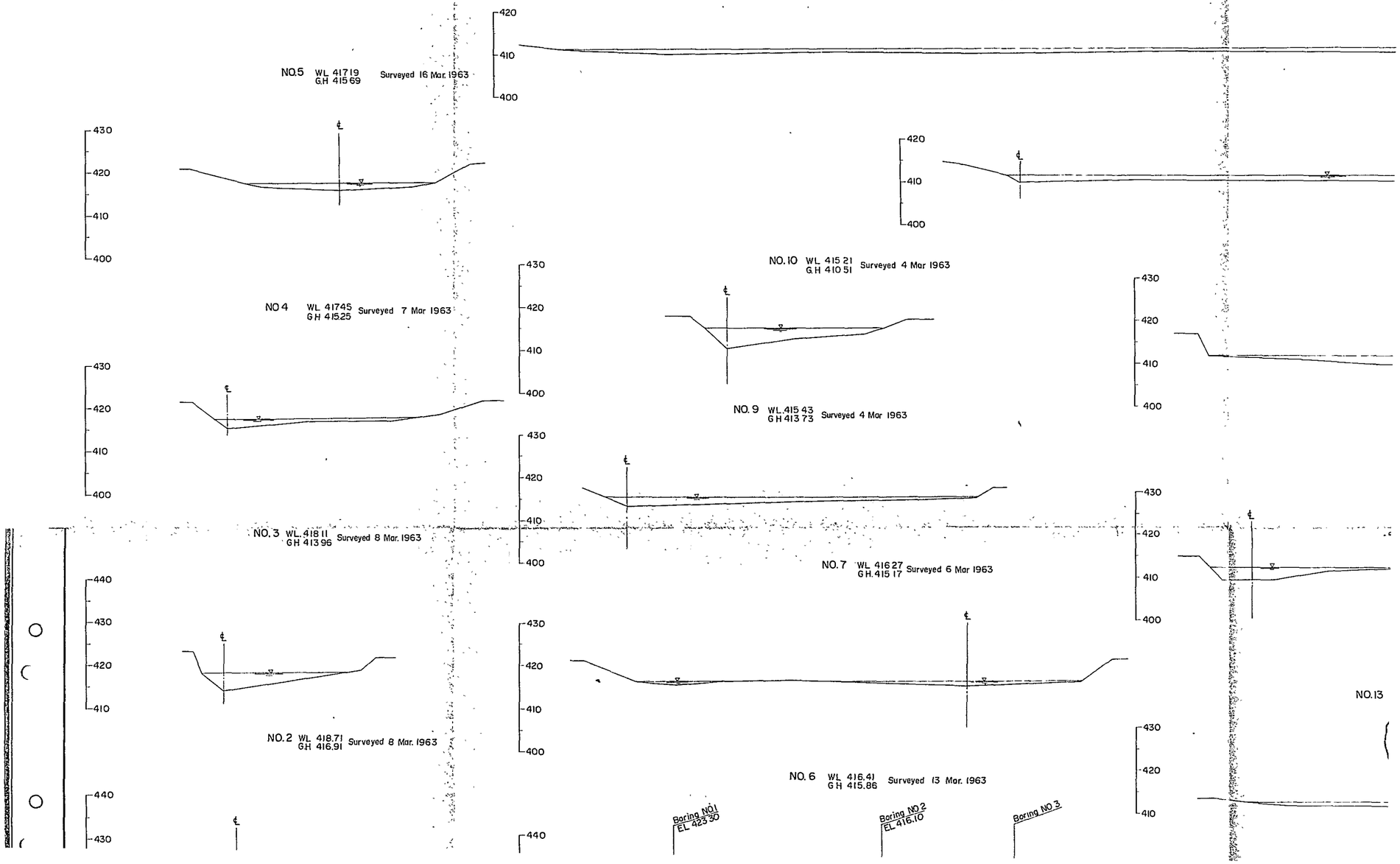
KRONG BUK PROJECT, UPPER SREPOK VIET - NAM

CROSS SECTION OF KRONG BUK & KRONG PACH

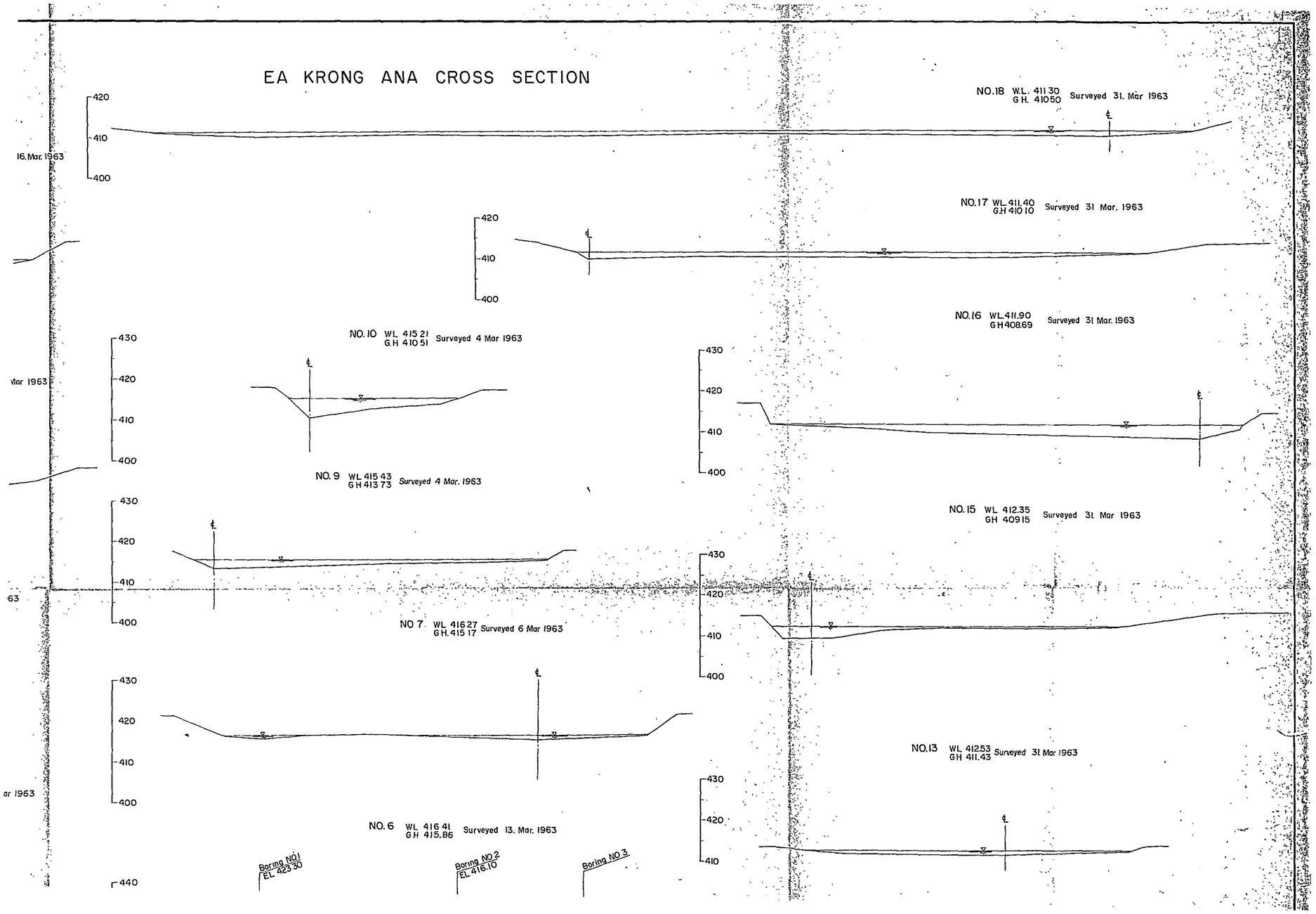
NIPPON KOEI CO., LTD. TOKYO
(CONSULTING ENGINEERS)

DRAWN	OFFICE TOKYO	DWG NO.
CHECKED	DATE MAY 30 1963	
SUBMITTED	RECOMMENDED	SHEET NO
APPROVED		

EA KRONG ANA CROSS SECTION

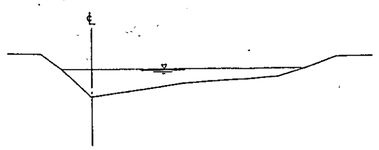


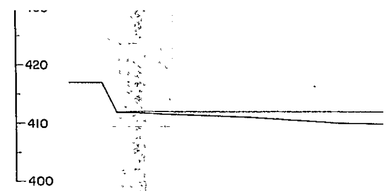
EA KRONG ANA CROSS SECTION



NO 4 WL 417.45 Surveyed 7. Mar 1963
G H. 415.25

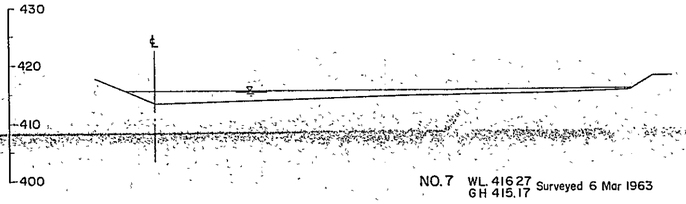
NO. 9 WL 415 43 Surveyed 4.Mar. 1963
G H.413.73



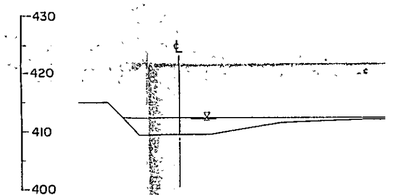


N(

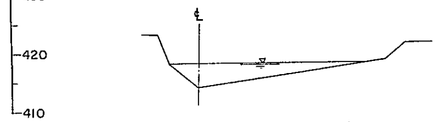
NO. 3 WL 418.11 Surveyed 8. Mar. 1963
G H 413.96



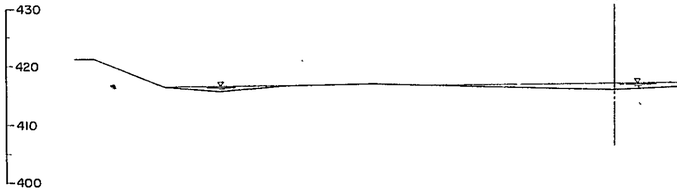
NO. 7 WL 416 27 Surveyed 6 Mar 1963
G H 415.17



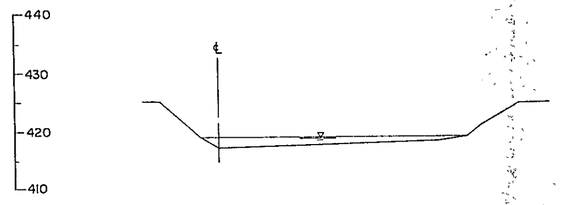
NO.13 W
G



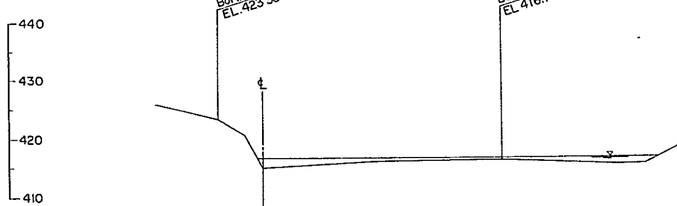
NO.2 WL 418 71 Surveyed 8 Mar. 1963
G H 416 91



NO. 6 WL 416 41 Surveyed 13 Mar. 1963
G H 415.86



NO.1 WL 420 63
G H 419.22

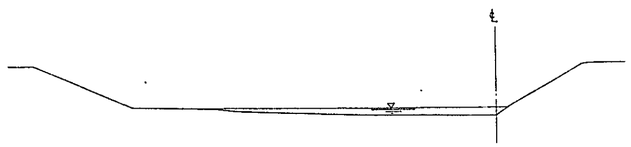


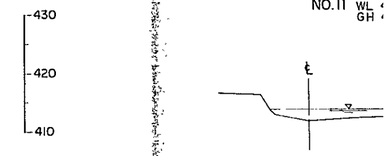
Boring NO 1
EL. 423 30

Boring NO 2
EL. 416.10

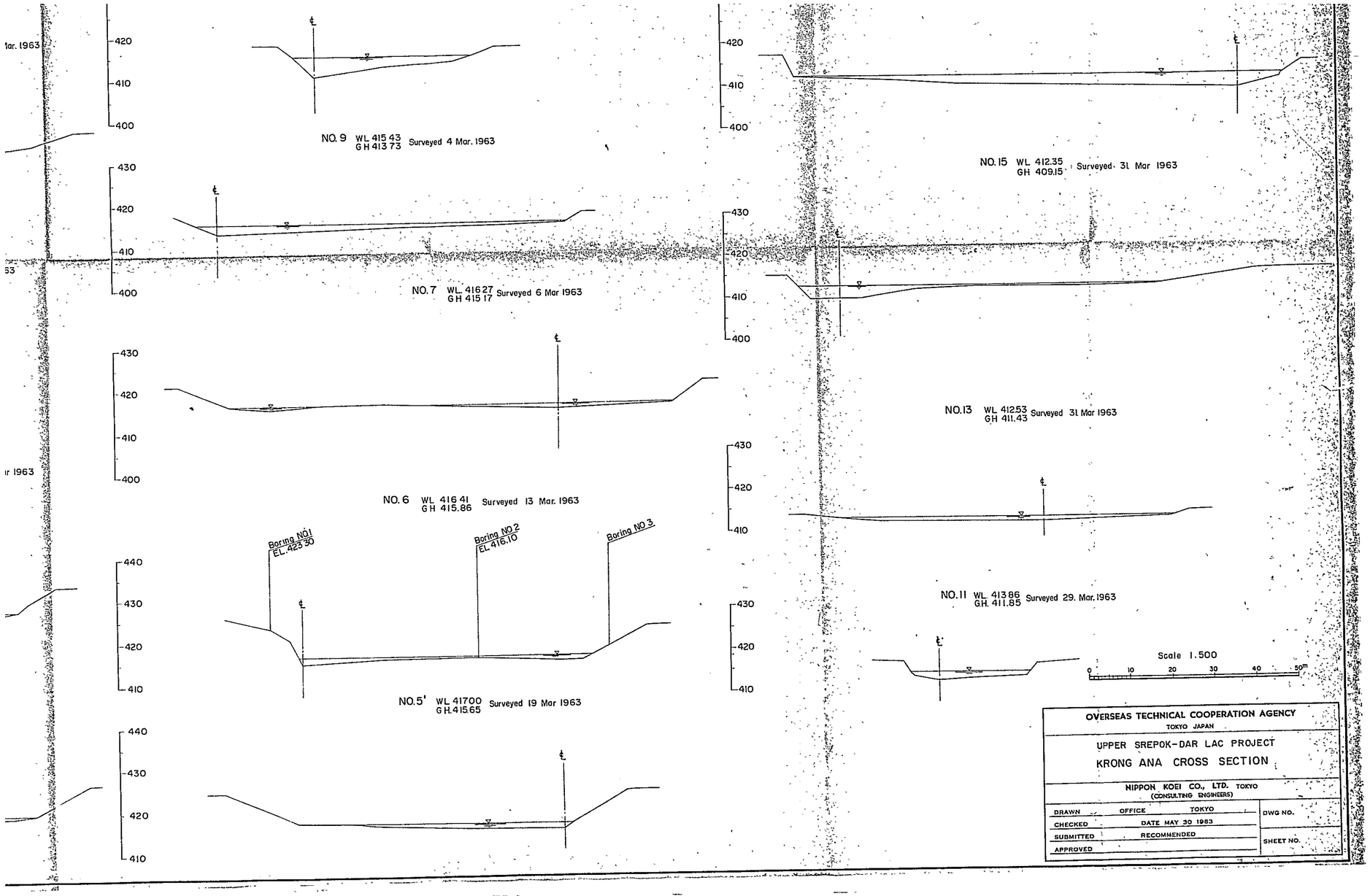
Boring NO 3

NO.5' WL 41700 Surveyed 19 Mar 1963
G H 41565





NO.11 WL
GH


NO. 9 WL 415 43 GH 413 73 Surveyed 4 Mar. 1963
NO. 7 WL 416 27 GH 415 17 Surveyed 6 Mar 1963
NO. 6 WL 416 41 GH 415.86 Surveyed 13 Mar. 1963
Boring NO1 EL. 423.30
Boring NO.2 EL. 416.10
Boring NO 3.
NO.5' WL 41700 GH.415.65 Surveyed 19 Mar 1963
NO. 15 WL 412.35 GH 409.15 Surveyed 31 Mar 1963
NO.13 WL 412.53 GH 411.43 Surveyed 31 Mar 1963
NO.11 WL 413 86 GH. 411.85 Surveyed 29. Mar. 1963
Scale 1.500
0 10 20 30 40 50m
OVERSEAS TECHNICAL COOPERATION AGENCY
TOKYO JAPAN
UPPER SREPOK-DAR LAC PROJECT
KRONG ANA CROSS SECTION
NIPPON KOEI CO., LTD. TOKYO
(CONSULTING ENGINEERS)
DRAWN
OFFICE TOKYO
CHECKED
DATE MAY 30 1963
SUBMITTED
RECOMMENDED
APPROVED
DWG NO.
SHEET NO.

RUN-OFF MEASUREMENT RECORD

STATION : KRONG PACH Year 1963-1964

River system : SREPOK Name of stream : KRONG PACH Drainage area (km^2) : 490.0

NO.	DATE	W. L. (M)	RUN-OFF (M^3/S)	FLOW AREA (M^3)	MEAN VELOCITY (M/S)	NO.	DATE	W. L. (M)	RUN-OFF (M^3/S)	FLOW AREA (M^3)	MEAN VELOCITY (M/S)
	(1963)										
1	12 10	1.40	10.37								
2	12 19	1.10	6.99								
3	12 28	1.02	8.71								
	(1964)										
4	1 9	0.90	7.52								
5	1 23	0.74	4.65								
6	2 1	0.64	4.45								

NB Water level in meters above arbitrary zero.
Arbitrary-zero is _____ meters above M. S. L.

NIPPON KOEI CO., LTD. TOKYO

RUN-OFF MEASUREMENT RECORD

STATION : KRONG BUK Year 1963-1965

River system : SREPOK

Name of stream : KRONG BUK

Drainage area (km^2) : 460.0

NO.	DATE	W. L. (M)	RUN-OFF (M^3/S)	FLOW AREA (M^3)	MEAN VELOCITY (M/S)	NO.	DATE	W. L. (M)	RUN-OFF (M^3/S)	FLOW AREA (M^3)	MEAN VELOCITY (M/S)
	(1963)										
1	12 9	0.72	4.97								
2	12 19	0.68	1.95								
3	12 28	0.67	3.57								
	(1964)										
4	1 9	0.63	3.10								
5	1 23	0.58	2.29								
6	2 1	0.56	2.05								
	(1965)										
7	3 29	0.48	2.55								
8	4 7	0.41	2.42								
9	5 5	0.49	2.56								

NB : Water level in meters above arbitrary zero.
Arbitrary zero is _____ meters above M. S. L.

NIPPON KOEI CO., LTD. TOKYO

RUN-OFF MEASUREMENT RECORD

STATION : KANA Year 1961-1965

River system : MEKONG Name of stream : KRONG ANA Drainage area (km^2) : 3,210

NO.	DATE	W. L. (M)	RUN-OFF (M^3/S)	FLOW AREA (M^3)	MEAN VELOCITY (M/S)	NO.	DATE	W. L. (M)	RUN-OFF (M^3/S)	FLOW AREA (M^3)	MEAN VELOCITY (M/S)
	(1961)						(1965)				
1	10 3	2.50	64.5			31	3 29	1.24	16.1		
2	10 13	3.89	139.0			32	4 8	1.19	13.8		
3	10 26	2.93	88.4								
4	11 3	2.16	57.8								
5	11 15	2.60	79.1								
6	11 26	2.18	58.4								
7	12 7	1.69	37.3								
8	12 27	1.49	26.9								
	(1962)										
9	1 4	1.68	35.2								
10	1 16	1.29	24.5								
11	3 19	1.17	21.4								
12	4 3	0.77	10.0								
13	4 29	0.85	11.2								
14	5 28	0.87	12.3								
15	6 28	0.85	8.0								
16	7 28	1.46	29.3								
17	8 31	1.99	49.4								
18	11 18	3.25	94.0								
19	12 20	3.10	94.0								
	(1963)										
20	1 16	2.09	31.2								
21	2 30	3.10	86.4								
22	3 23	1.23	13.1								
23	4 13	1.12	9.2								
24	4 22	1.53	20.9								
25	12 8	2.30	49.8								
26	12 18	1.89	31.2								
27	12 30	1.59	27.5								
	(1964)										
28	1 8	1.48	25.6								
29	1 22	1.31	20.0								
30	2 2	1.10	14.3								

NB Water level in meters above arbitrary zero.
Arbitrary zero is ____ meters above M. S. L.

NIPPON KOEI CO., LTD. TOKYO

RUN-OFF MEASUREMENT RECORD

STATION : BAN BUR Year 1961-1965

River system : MEKONG Name of stream : SREPOK Drainage area (km²) : 8,650

NO.	DATE	W. L. (M)	RUN-OFF (M³/S)	FLOW AREA (M³)	MEAN VELOCITY (M/S)	NO.	DATE	W. L. (M)	RUN-OFF (M³/S)	FLOW AREA (M³)	MEAN VELOCITY (M/S)
1	(1961) 10 4	1.62	383.8								
2	11 5	1.23	238.1								
3	12 8	0.80	121.8								
4	(1962) 1 5	0.78	96.6								
5	3 19	0.57	56.5								
6	4 2	0.41	41.0								
7	4 27	0.51	46.9								
8	5 27	0.55	48.6								
9	6 27	0.60	63.7								
10	7 27	1.35	224.6								
11	12 21	1.27	323.5								
12	(1963) 1 16	0.86	95.5								
13	2 19	0.67	49.6								
14	8 23	0.55	41.0								
15	4 15	0.46	38.4								
16	12 8	0.90	101.1								
17	12 20	0.77	93.7								
18	12 30	0.70	73.4								
19	(1964) 1 8	0.65	65.4								
20	1 22	0.58	58.1								
21	2 2	0.54	56.4								
22	(1965) 4 10	0.55	59.8								

NB : Water level in meters above arbitrary zero
Arbitrary zero is _____ meters above M. S. L.

NIPPON KOEI CO., LTD. TOKYO

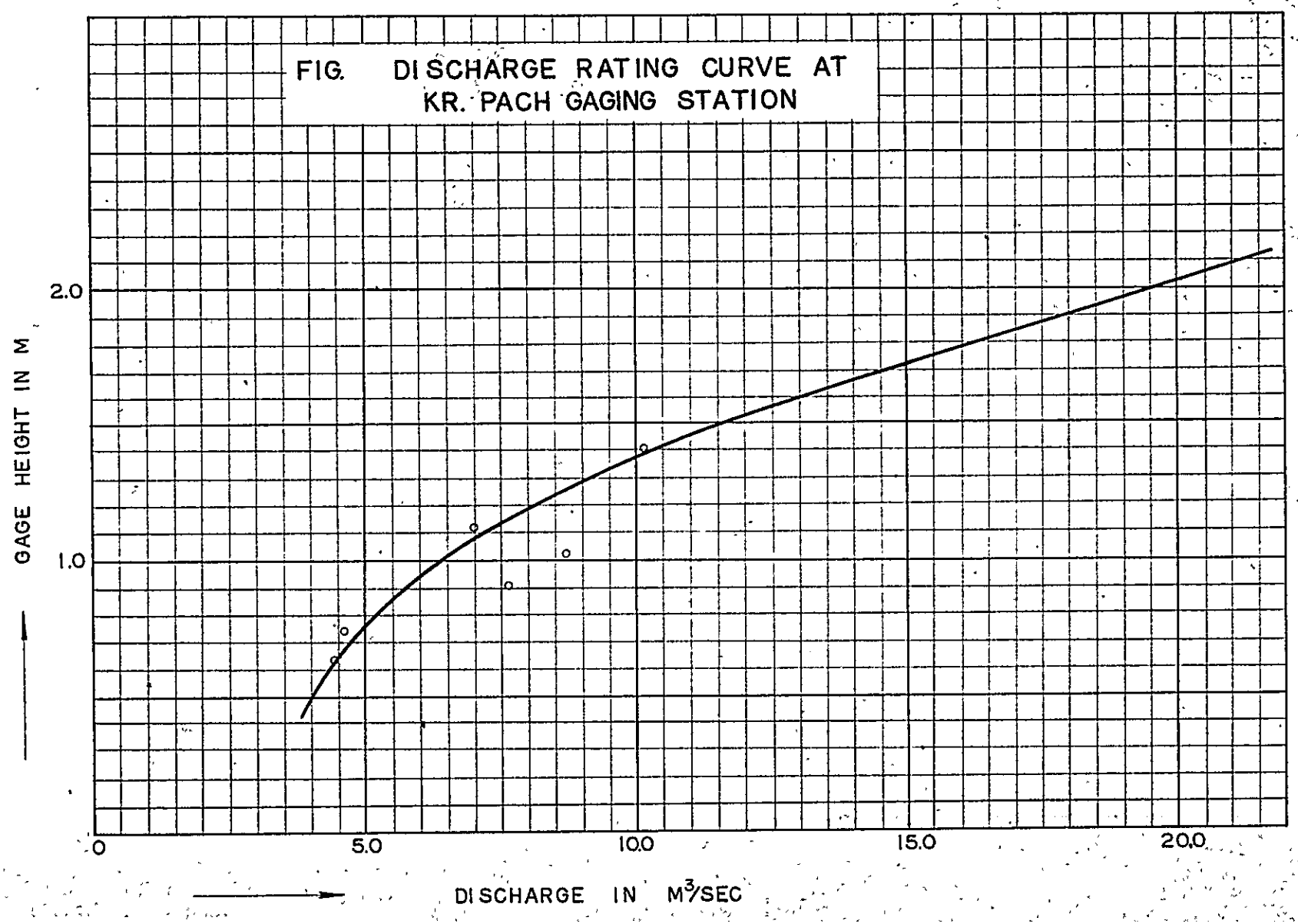


FIG. DISCHARGE RATING CURVE AT
KR. PACH GAGING STATION
GAGE HEIGHT IN M
2.0
1.0
0
5.0
10.0
15.0
20.0
DISCHARGE IN M³/SEC

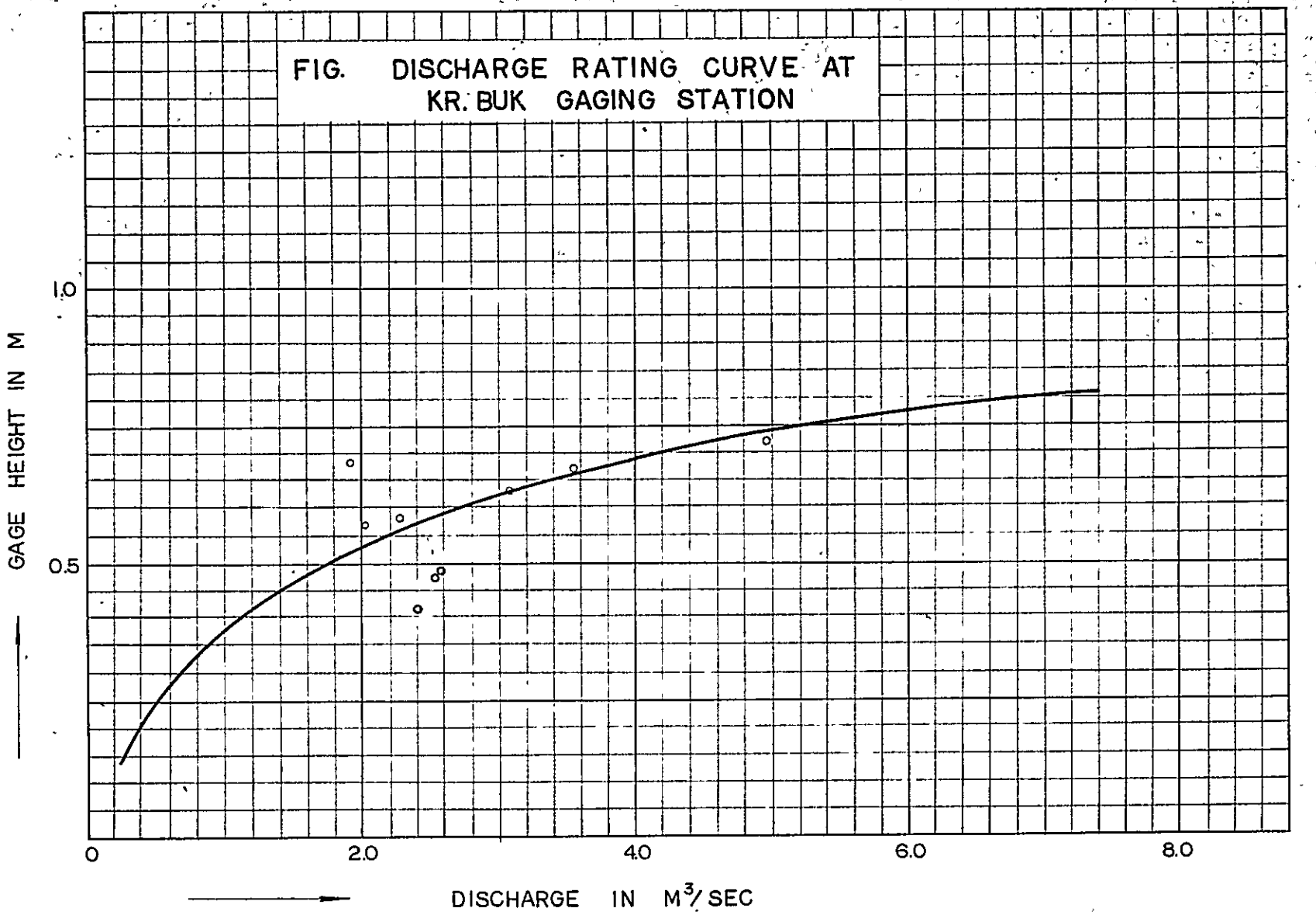


FIG. DISCHARGE RATING CURVE AT KR. BUK GAGING STATION
GAGE HEIGHT IN M
1.0
0.5
0
2.0
4.0
6.0
8.0
DISCHARGE IN M³/SEC

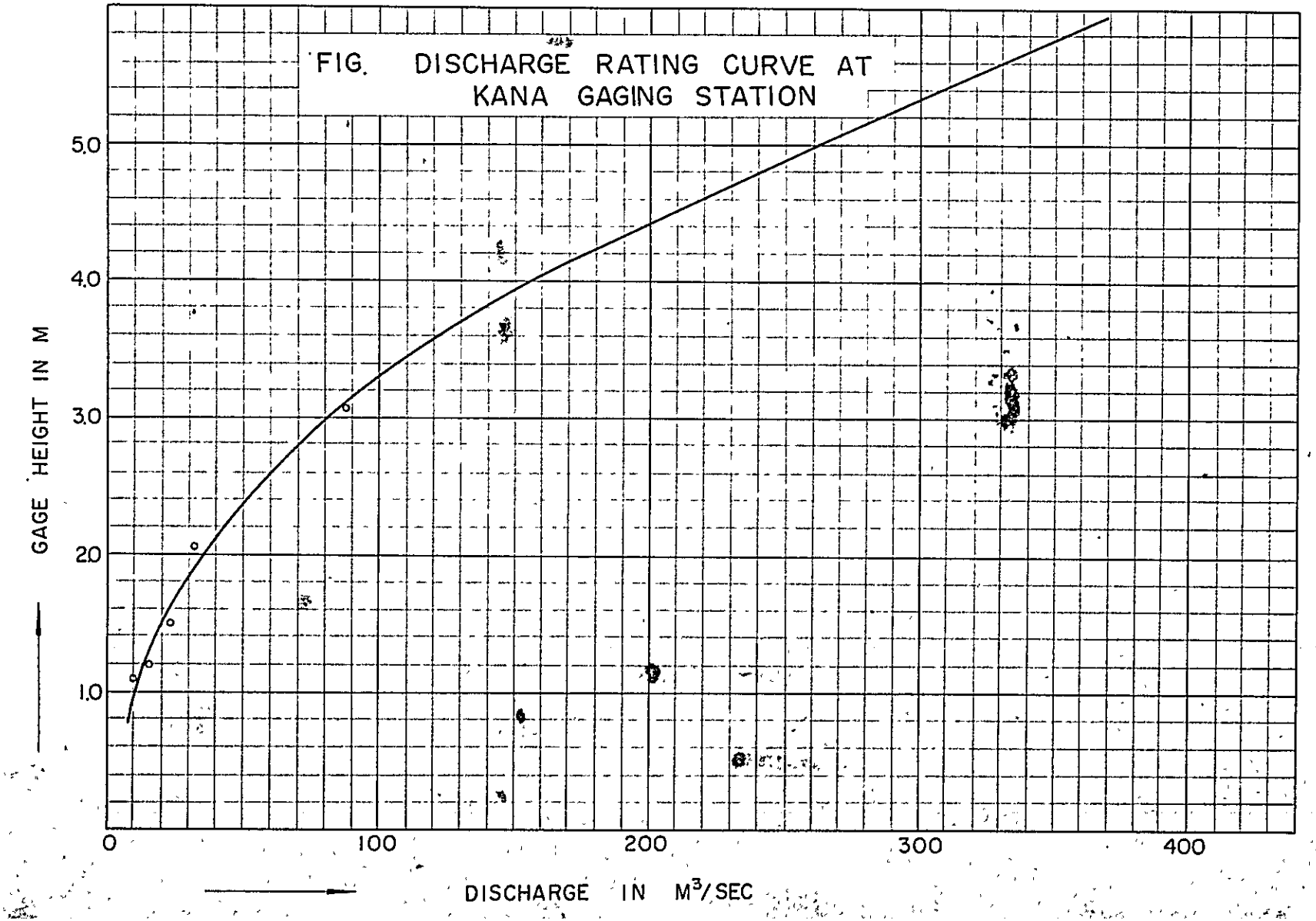


FIG. DISCHARGE RATING CURVE AT KANA GAGING STATION
GAGE HEIGHT IN M
5.0
4.0
3.0
2.0
1.0
0
100
200
300
400
DISCHARGE IN M³/SEC

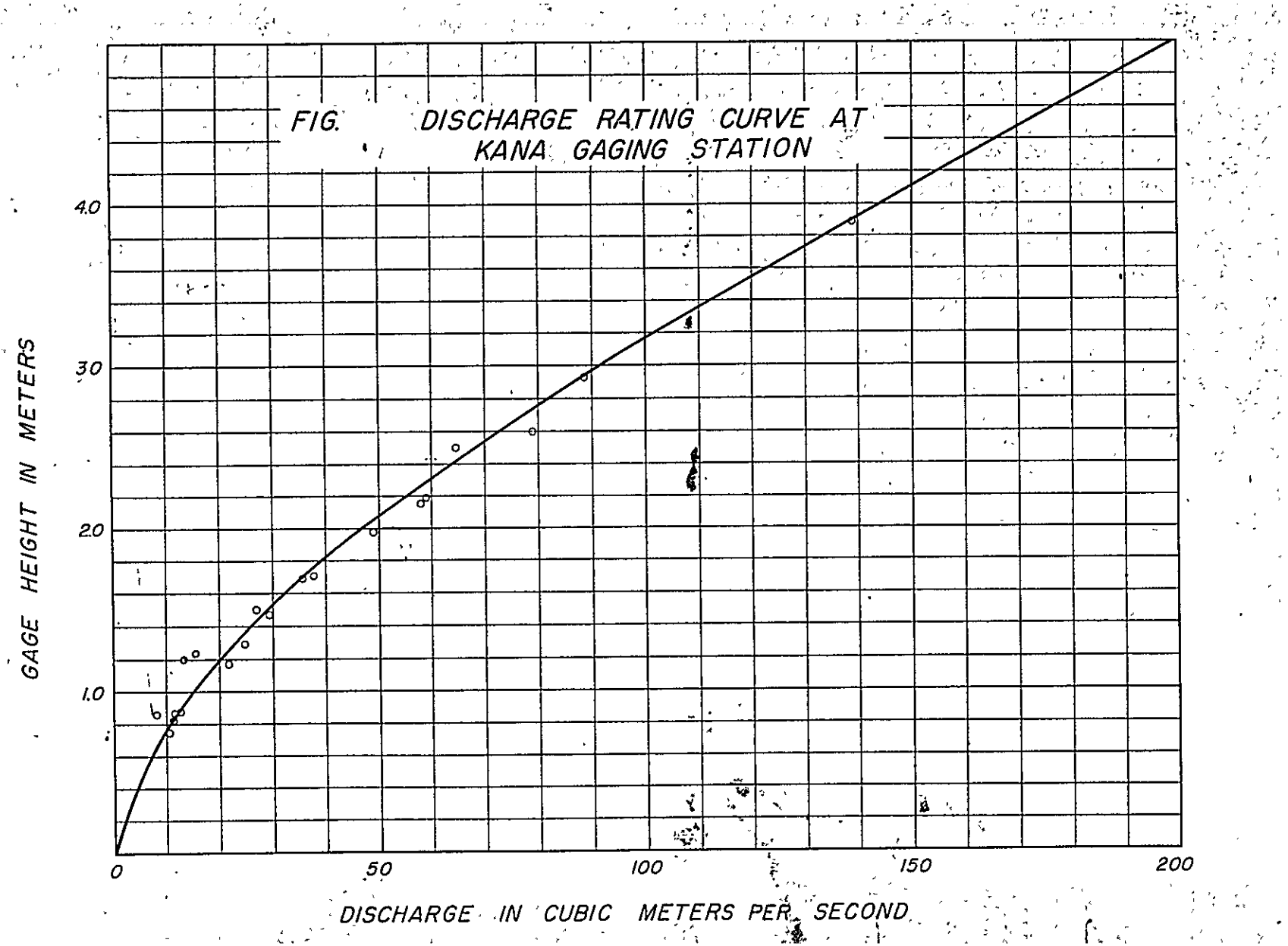
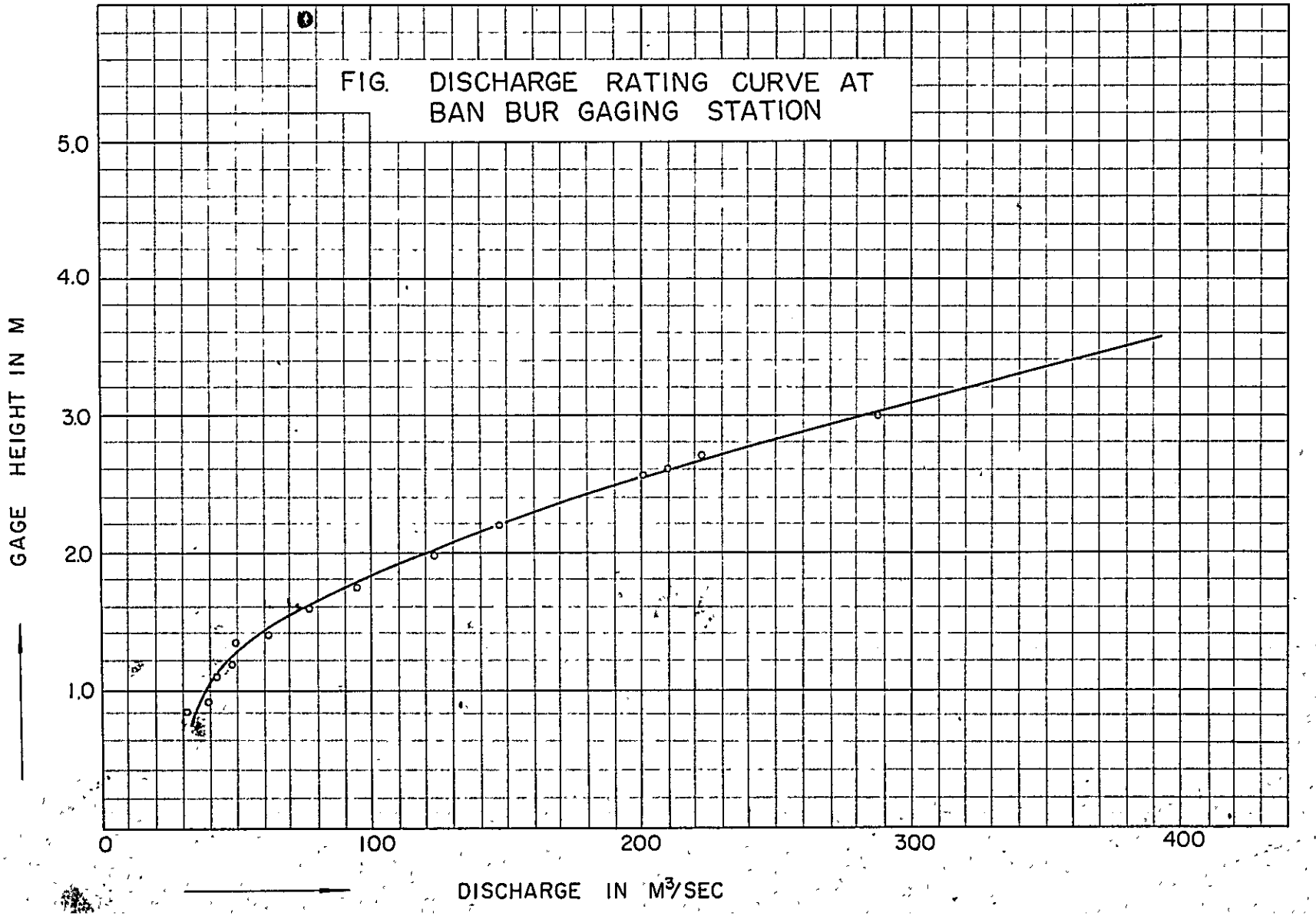


FIG. DISCHARGE RATING CURVE AT KANA GAGING STATION
GAGE HEIGHT IN METERS
4.0
3.0
2.0
1.0
0
50
100
150
200
DISCHARGE IN CUBIC METERS PER SECOND

FIG. DISCHARGE RATING CURVE AT BAN BUR GAGING STATION



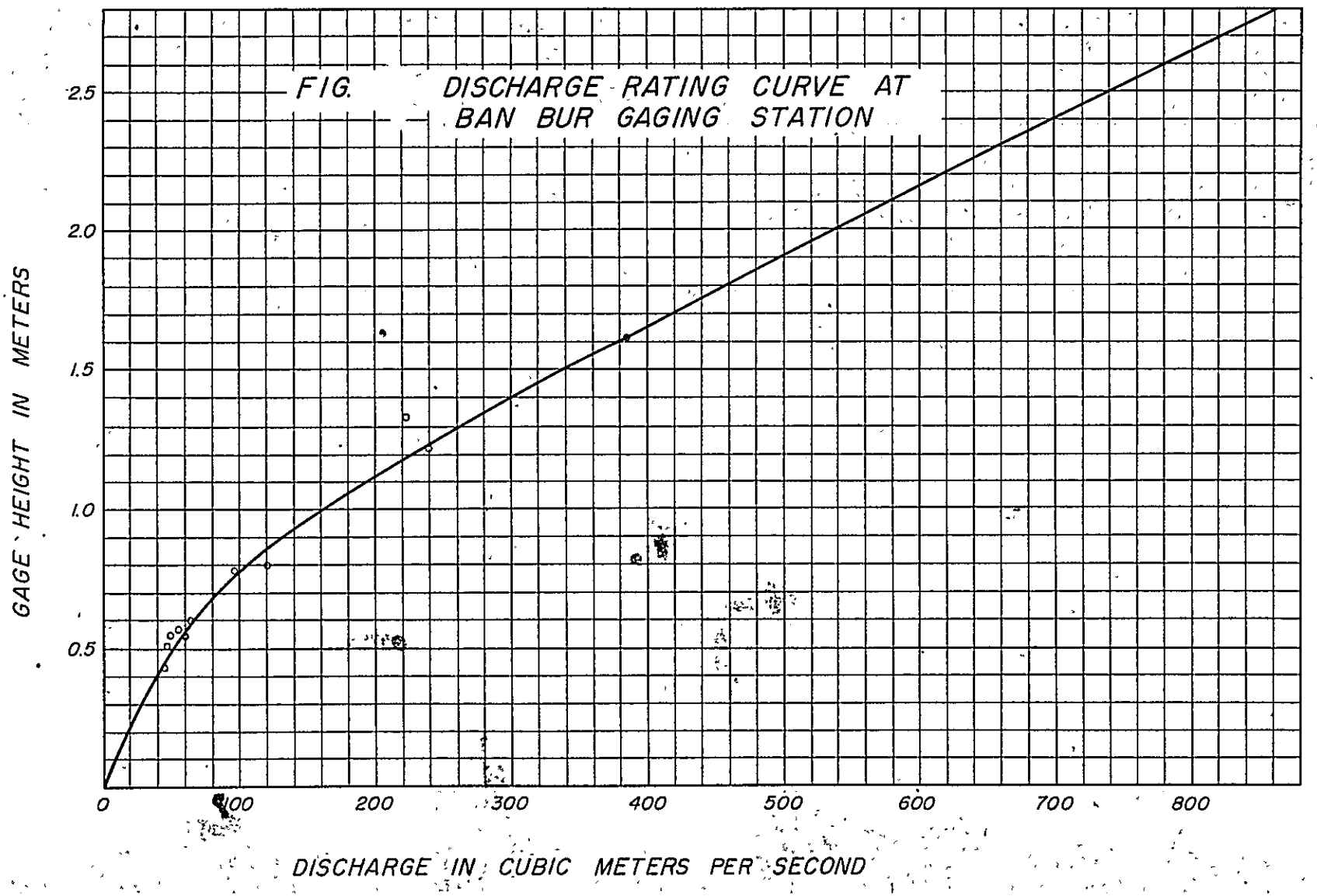


FIG.
DISCHARGE RATING CURVE AT
BAN BUR GAGING STATION
GAGE HEIGHT IN METERS
2.5
2.0
1.5
1.0
0.5
0
100
200
300
400
500
600
700
800
DISCHARGE IN CUBIC METERS PER SECOND

MONTHLY DISCHARGE

No _____ Station Krong Pach

River system Srepok Name of stream. Krong Pach Drainage area. 490.0 km² Water year Dec. 1963 to Oct. 1964

Y / M	1963 Max	1963 Min.	1963 Mean	1963 / 100 km²	1964 Max.	1964 Min.	1964 Mean	1964 / 100 km²
JAN					5.58	4.46	4.99	1.02
FEB					5.15	9.09	4.42	0.90
MAR.					4.63	4.21	4.36	0.89
APR.					4.21	2.86	3.44	0.70
MAY					6.12	3.12	4.29	0.88
JUNE					6.35	3.54	4.60	0.94
JULY					13.38	3.28	4.86	0.99
AUG					5.03	3.12	4.10	0.84
SEP.					19.96	4.13	8.36	1.61
OCT					41.08	4.04	8.54	1.74
NOV.								
DEC	27.53	5.58	11.68	2.38				
Total								
Mean								
Max.								
Min.								

MONTHLY DISCHARGE

No Station Krong Buk

River system Srepok Name of stream Krong Buk Drainage area 460.0 km² Water year Aug. 1963 to Dec 1964

Y / M	1963 Max	1963 Min	1963 Mean	1963 100 km²	1964 Max	1964 Min	1964 Mean	1964 100 km²
JAN					4.15	2.84	3.63	0.73
FEB.					3.06	2.25	2.43	0.53
MAR					3.06	2.25	2.44	0.53
APR					3.21	2.25	2.59	0.56
MAY					5.51	2.25	3.45	0.75
JUNE					3.57	2.48	3.12	0.68
JULY					6.48	2.77	3.68	0.80
AUG	31.49	3.57	10.85	2.36	16.24	2.77	5.27	1.15
SEP	42.06	4.59	11.69	2.54	37.20	3.57	10.63	2.31
OCT	79.63	5.89	24.54	5.34	29.18	5.21	12.21	2.66
NOV	31.09	5.21	11.01	2.40	235.61	7.43	41.18	8.94
DEC	6.64	4.15	4.68	1.02	130.33	4.04	13.85	3.01
Total								
Mean								
Max								
Min								

MONTHLY DISCHARGE

No ... Station Krong Buk

River system Srepok Name of stream Krong Buk Drainage area 460.0 km² Water year Jan, 1965 to 19

Y / M	1965 Max	Min	Mean	100 km²	19 Max	Min	Mean	100 km²
JAN	4.59	3.57	3.99	0.87				
FEB	4.47	2.84	3.45	0.75				
MAR								
APR								
MAY								
JUNE								
JULY								
AUG.								
SEP								
OCT								
NOV								
DEC								
Total								
Mean								
Max								
Min								

MONTHLY DISCHARGE

No _____ Station KANA

River system MEKONG Name of stream UPPER SREPOK Drainage area 3,210 km² Water year 1961 to 1962

Y / M	1961 Max	1961 Min	1961 Mean	1961 / 100 km²	1962 Max	1962 Min	1962 Mean	1962 / 100 km²
JAN					36.5	20.0	25.5	0.80
FEB					21.5	15.0	18.1	0.56
MAR					16.5	10.5	12.9	0.40
APR					11.5	8.5	9.8	0.31
MAY					24.5	8.0	13.0	0.41
JUNE					35.5	9.5	14.4	0.45
JULY					91.0	12.0	37.8	1.18
AUG.					158.0	41.0	88.7	2.76
SEP					185.0	35.0	94.8	2.95
OCT	139.0	30.5	85.6	2.67				
NOV	72.5	43.0	59.4	1.86	400.0	133.0	286.4	8.92
DEC	45.5	25.0	31.8	0.99	395.0	51.0	172.9	5.39
Total								
Mean								
Max								
Min								

MONTHLY DISCHARGE

No _____ Station. KANA

River system MEKONG Name of stream. KRONG ANA Drainage area. 3,210 km² Water year 1963 to 1964

M \ Y	1963 Max.	1963 Min.	1963 Mean	1963 / 100 km²	1964 Max	1964 Min.	1964 Mean	1964 / 100 km²
JAN	54.0	24.5	34.98	1.09				
FEB	24.0	16.0	19.93	0.62	19.8	12.7	15.58	0.49
MAR.	15.0	12.0	13.06	0.41	14.2	11.8	12.50	0.39
APR	12.0	10.0	11.13	0.35	11.9	10.9	11.30	0.35
MAY	15.0	10.0	10.95	0.34	15.9	10.9	13.20	0.41
JUNE	16.9	10.0	11.63	0.36	20.3	12.7	16.50	0.51
JULY	39.2	29.2	33.58	1.05	26.0	12.8	15.90	0.50
AUG	104.2	34.1	71.97	2.24	54.4	14.2	30.70	0.96
SEP	240.4	34.1	120.23	3.75	46.7	17.4	32.90	1.02
OCT.	355.9	89.3	214.73	6.69	75.1	23.7	44.60	1.39
NOV	116.4	32.3	57.02	1.78				
DEC								
Total								
Mean								
Max								
Min								

MONTHLY DISCHARGE

No _____ Station KANA

River system. MEKONG Name of stream. KRONG ANA Drainage area. 3,210 km² Water year 1965 to 19

Y / M	1965 Max.	1965 Min.	1965 Mean	1965 /100 km²	19 Max	19 Min.	19 Mean	19 /100 km²
JAN.	115.8	36.3	56.60	1,86				
FEB.	38.0	23.2	29.20	0.91				
MAR.	27.9	15.6	19.90	0.62				
APR.								
MAY								
JUNE								
JULY								
AUG.								
SEP.								
OCT								
NOV.								
DEC.								
Total								
Mean								
Max.								
Min.								

MONTHLY DISCHARGE

No. _____ Station BAN BUR

River system MEKONG Name of stream UPPER SREPOK Drainage area 8,650 km² Water year 1961 to 1962

Y / M	1961 Max	1961 Min	1961 Mean	1961 100 km²	1962 Max	1962 Min	1962 Mean	1962 100 km²
JAN					103.0	41.5	64.2	0.74
FEB					61.0	38.0	50.1	0.58
MAR					57.0	41.5	45.0	0.52
APR					50.0	39.0	42.3	0.49
MAY					100.0	41.0	62.0	0.72
JUNE					123.0	63.0	83.6	0.97
JULY					416.0	59.0	211.6	2.45
AUG					403.0	57.0	259.3	3.00
SEP								
OCT	822.0	266.0	487.4	5.63	1,040.0	121.0	336.5	3.89
NOV	296.0	160.0	199.3	2.30	1,000.0	305.0	627.1	7.25
DEC	160.0	90.0	120.0	1.39	482.0	114.0	283.3	3.28
Total								
Mean								
Max								
Min								

MONTHLY DISCHARGE

No ___ Station BAN BUR

River system MEKONG Name of stream SREPOK Drainage area 8,650 km² Water year 1963 to 1964

Y / M	1963 Max	1963 Min	1963 Mean	1963 100 km²	1964 Max	1964 Min	1964 Mean	1964 100 km²
JAN	111.0	73.0	88.5	1.02	60.2	38.0	46.4	0.54
FEB	73.0	51.0	60.8	0.70	42.7	35.6	38.9	0.45
MAR	49.0	41.0	44.2	0.51	34.6	28.3	32.4	0.37
APR	40.0	31.0	35.6	0.41	31.5	26.4	28.5	0.33
MAY	61.7	28.7	36.7	0.42	84.0	26.4	49.3	0.57
JUNE	98.1	31.0	48.4	0.56	87.8	41.7	60.5	0.70
JULY	78.3	43.8	59.4	0.69	92.9	64.7	79.1	0.91
AUG	260.2	61.7	158.0	1.83	209.2	91.8	141.5	1.64
SEP	555.1	176.6	334.8	3.87	264.0	89.8	135.1	1.56
OCT	764.2	271.9	466.7	5.40	233.9	152.9	193.4	2.24
NOV	260.2	96.0	161.5	1.87				
DEC	118.6	58.7	84.6	0.98	592.7	317 4	421.5	4.87
Total								
Mean								
Max								
Min								

MONTHLY DISCHARGE

No. _____ Station BAN BUR

River system. MEKONG Name of stream. SREPOK Drainage area. 8,650 km² Water year 1965 to 19

Y / M	19 65 Max	Min.	Mean	/ 100 km²	19 Max	Min	Mean	/ 100 km²
JAN	352.9	60.2	144.5	1.67				
FEB	60.2	48.2	42.7	0.49				
MAR.	48.2	42.7	46.0	0.53				
APR								
MAY								
JUNE								
JULY								
AUG.								
SEP.								
OCT								
NOV								
DEC								
Total								
Mean								
Max.								
Min.								

WATER LEVEL AND DISCHARGE

STATION KRONG PACH Year 1963

River system : SREPOK Name of stream : KRONG PACH Drainage area (km²) : 4900

											Dec.	
	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)
1											1.62	13.75
2											2.24	27.26
3											2.10	23.70
4											2.25	27.53
5											2.64	39.10
6											2.10	23.70
7											1.80	17.07
8											1.58	13.09
9											1.49	11.67
10											1.41	10.52
11											1.31	9.21
12											1.32	9.33
13											1.28	8.85
14											1.27	8.73
15											1.26	8.62
16											1.21	8.06
17											1.16	7.54
18											1.17	7.34
19											1.12	7.15
20											1.11	7.06
21											1.11	7.06
22											1.11	7.06
23											1.11	7.06
24											1.10	6.97
25											1.08	6.79
26											1.07	6.70
27											1.05	6.53
28											1.02	6.27
29											1.03	6.37
30									1.32	9.33	1.02	1.29
31											0.92	5.52
TOTAL												361.98
DAYS												
MEAN												11.68
MAX.												27.53
MIN.												5.58

NB Water level in meters arbitrary zero.
Arbitrary zero is _____ meters above M. S. L.

NIPPON KOEI CO., LTD. TOKYO

WATER LEVEL AND DISCHARGE

STATION KRONG PACH Year 1964

River system: SREPOK Name of stream: KRONG PACH Drainage area (km²): 490.0

	Jan.		Feb.		Mar.		Apr.		May		Jun.	
	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)
1	0.89	5.40	0.64	4.42	0.70	4.57	0.50	4.21	0.37	3.12	0.35	4.29
2	0.88	5.34	0.64	4.42	0.68	4.51	0.50	4.21	0.38	3.20	1.03	6.35
3	0.87	5.29	0.69	4.54	0.67	4.49	0.49	4.13	0.40	3.37	0.82	5.03
4	0.87	5.29	0.77	4.81	0.66	4.46	0.49	4.13	0.90	5.46	0.80	4.94
5	0.86	5.23	0.69	4.54	0.64	4.42	0.48	4.04	0.64	4.42	0.74	4.70
6	0.90	5.46	1.00	6.14	0.63	4.40	0.48	4.04	0.61	4.36	0.54	4.30
7	0.92	5.58	1.17	7.64	0.62	4.38	0.47	3.96	0.59	4.34	0.44	3.71
8	0.92	5.58	0.90	5.46	0.60	4.35	0.46	3.87	0.55	4.31	0.42	3.54
9	0.90	5.46	0.78	4.85	0.59	4.34	0.45	3.79	0.35	4.29	0.45	3.79
10	0.88	5.34	0.73	4.66	0.70	4.57	0.44	3.71	0.43	3.62	0.49	4.13
11	0.86	5.23	0.71	4.60	0.7-	4.63	0.42	3.54	0.41	3.45	0.55	4.31
12	0.82	5.03	0.70	4.57	0.63	4.40	0.41	3.45	0.40	3.37	0.60	4.35
13	0.81	4.98	0.69	4.54	0.60	4.35	0.41	3.45	0.45	3.79	0.75	4.73
14	0.80	4.94	0.78	4.85	0.59	4.34	0.40	3.37	0.49	4.13	0.65	4.44
15	0.78	4.85	1.30	9.09	0.59	4.34	0.40	3.37	0.73	4.65	0.85	5.16
16	0.77	4.81	0.98	5.99	0.60	4.35	0.39	3.28	0.61	4.36	1.01	6.19
17	0.74	4.70	0.94	5.71	0.58	4.33	0.40	3.37	0.55	4.31	0.98	5.97
18	0.71	4.60	0.80	4.94	0.58	4.33	0.39	3.28	0.51	4.27	0.80	4.94
19	0.74	4.70	0.82	5.03	0.57	4.32	0.38	3.20	0.49	4.13	0.72	4.63
20	0.78	4.85	0.95	5.78	0.55	4.31	0.38	3.20	0.52	4.28	0.70	4.57
21	0.78	4.85	0.82	5.03	0.55	4.31	0.38	3.20	0.75	4.73	0.64	4.42
22	0.79	4.89	0.79	4.89	0.54	4.30	0.37	3.12	0.70	4.57	0.74	4.70
23	0.73	4.66	0.75	4.73			0.36	3.03	0.68	3.03	0.68	4.51
24	0.72	4.63	0.69	4.54	0.53	4.29	0.35	2.95	0.55	4.31	0.64	4.42
25	0.72	4.63	0.72	4.63	0.52	4.28	0.35	2.95	0.58	4.33	0.59	4.34
26	0.70	4.57	0.74	4.70	0.52	4.28	0.35	2.95	0.98	5.97	0.54	4.30
27	0.70	4.57	0.77	4.81	0.51	4.27	0.34	2.86	1.0	6.12	0.57	4.32
28	0.69	4.54	0.75	4.73	0.50	4.21	0.34	2.86	0.60	4.35	0.60	4.35
29	0.67	4.49	0.73	4.66	0.50	4.21	0.35	2.95	0.57	4.32	0.50	4.21
30	0.67	4.49			0.51	4.27	0.34	2.86	0.62	4.38	0.54	4.30
31	0.66	4.46			0.51	4.27			0.54	4.30		
TOTAL		154.54		149.30		130.88		103.33		133.12		138.0
DAYS						30		30		31		30
MEAN		4.99		5.15		4.36		3.44		4.29		4.60
MAX.		5.58		9.09		4.63		4.21		6.12		6.35
MIN.		4.46		4.42		4.21		2.86		3.12		3.54

NB Water level in meters arbitrary zero.
Arbitrary zero is _____ meters above M.S.L.

NIPPON KOEI CO., LTD. TOKYO

HQD-2

WATER LEVEL AND DISCHARGE

STATION KRONG PACH

River system: SREPOK Name of stream: KRONG PACH Drainage area (Km²): 490.0 Year 1964

	July		Aug		Sept		Oct		Nov		Dec		
	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q	
1	0.57	4.32	0.82	5.03	0.53	4.29	1.30	9.09	3.45	70.67	1.80	17.07	1
2	0.51	4.27	0.60	4.35	0.52	4.28	1.10	6.97	3.45	70.67	1.74	15.87	2
3	0.47	3.96	0.72	4.63	0.49	4.13	1.20	7.92	3.80	87.42	1.50	11.79	3
4	0.45	3.79	0.77	4.81	0.96	5.83	1.40	10.34	3.50	72.94	1.40	10.34	4
5	0.44	3.71	0.62	4.38	1.80	17.07	0.95	5.78	4.0	97.85	1.48	11.48	5
6	0.42	3.54	0.57	4.32	0.92	5.58	1.20	7.92			1.35	9.68	6
7	0.40	3.37	0.52	4.28	0.80	4.94	1.10	6.97			1.30	9.09	7
8	0.39	3.28	0.54	4.30	0.71	4.60	0.85	5.16			1.25	8.47	8
9	0.42	3.54	0.59	4.34	1.32	9.33	1.40	10.34			2.10	25.70	9
10	0.42	3.54	0.62	4.38	1.54	12.40	1.75	16.06			3.59	77.14	10
11	0.52	4.28	0.59	4.34	1.10	6.97	1.25	8.47			4.0	97.85	11
12	0.69	4.54	0.54	4.30	0.92	5.52	1.05	6.53					12
13	0.95	5.78	0.52	4.28	1.72	15.49	1.30	9.09					13
14	0.64	4.42	0.53	4.29	1.94	19.96	1.15	7.41					14
15	0.80	4.94	0.52	4.28	1.72	15.49	0.80	4.94					15
16	0.92	5.58	0.50	4.21	1.90	19.09	0.75	4.73					16
17	0.82	5.03	0.46	3.87	1.64	14.06	0.74	4.70			4.0	97.85	17
18	0.74	4.70	0.43	3.62	1.10	6.97	0.70	4.57			3.70	82.44	18
19	0.64	4.42	0.41	3.45	0.90	5.46	0.59	4.34			3.40	68.42	19
20	0.52	4.28	0.40	3.37	0.94	5.71	0.52	4.28			3.15	57.80	20
21	0.50	4.21	0.38	3.20	1.15	7.41	0.50	4.21			2.30	28.86	21
22	0.59	4.89	0.38	3.20	0.79	4.89	0.48	4.04			2.10	23.70	22
23	0.64	4.42	0.37	3.12	0.92	5.58	0.45	3.79			2.25	27.50	23
24	0.58	4.33	0.39	3.28	1.35	9.68	0.52	4.28			2.46	33.46	24
25	0.54	4.30	0.42	3.54	0.82	5.03	0.64	4.42					25
26	0.52	4.28	0.47	3.96	0.74	4.70	0.62	4.38	4.0	97.85			26
27	0.51	4.27	0.49	4.13	0.72	4.63	0.68	4.51	3.20	59.84			27
28	0.95	5.78	0.62	4.38	1.10	6.97	0.92	5.52	3.10	55.78			28
29	1.60	13.38	0.72	4.63	1.30	9.09	0.90	19.09	2.15	24.91			29
30	1.25	8.47	0.61	4.36	0.92	5.58	2.10	23.70	2.0	21.30			30
31	1.10	6.97	0.59	4.34			2.70	41.08					31
MAX		13.38		5.03		19.96		41.08					MAX
MIN		3.28		3.12		4.13		4.04					MIN
TOTAL		150.59		126.97		250.73		264.63					TOTAL
DAYS		31		31		30		31					DAYS
MEAN		4.86		4.10		8.36		8.54					MEAN

H : Gauge height in_____, Q : Discharge in_____,

Zero point of water gauge El.

HQD-2

WATER LEVEL AND DISCHARGE

STATION KRONG BUK

River system. SREPOK Name of stream: KRONG BUK Drainage area (Km²): 460.0 Year 1963

	July		Aug		Sept		Oct		Nov		Dec		
	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q	
1			1.51	22.52	0.74	5.08	1.80	33.06	0.92	7.78	0.80	5.89	1
2			1.50	22.19	0.70	4.59	1.20	13.65	0.99	9.05	0.79	5.74	2
3			1.51	22.52	1.20	13.65	1.50	22.19	0.90	7.43	0.85	6.64	3
4			1.56	24.18	1.69	28.81	2.00	41.60	1.00	9.25	0.85	6.64	4
5			1.55	23.85	1.60	25.56	2.60	73.43	0.95	8.32	1.75	5.21	5
6			1.57	24.52	0.88	7.10	1.40	19.08	0.95	8.32	0.75	5.21	6
7			1.61	25.90	0.90	7.43	1.20	13.65	0.88	7.10	0.11	4.71	7
8			1.76	31.49	0.90	7.43	1.10	11.30	1.75	31.90	0.69	4.47	8
9			1.76	31.49	0.91	7.61	1.05	10.26	1.75	31.09	0.69	4.47	9
10			1.01	9.45	0.84	6.48	1.01	9.45	1.73	30.28	0.70	4.59	10
11			0.84	6.48	0.83	6.32	0.85	6.64	1.67	38.07	0.70	4.59	11
12			0.86	6.79	0.77	5.47	0.80	5.89	1.66	27.71	0.71	4.71	12
13			0.74	5.08	0.77	5.47	0.80	5.89	1.20	13.65	0.70	4.59	13
14			0.62	3.74	0.76	5.34	1.20	13.65	1.00	9.25	0.70	4.59	14
15			0.60	3.57	0.78	5.60	1.50	22.19	0.83	6.32	0.70	4.59	15
16			0.60	3.57	0.75	5.21	1.10	11.33	0.83	6.32	0.69	4.47	16
17			0.62	3.74	0.80	5.89	0.97	8.68	0.80	5.89	0.68	4.35	17
18			0.62	3.74	0.82	1.00	9.25	0.81	6.02	6.02	0.68	4.35	18
19			0.63	3.83	0.77	5.47	2.40	61.78	0.77	5.47	0.68	4.35	19
20			0.67	4.26	0.85	6.64	2.60	73.43	0.76	5.34	0.68	4.35	20
21			0.62	3.74	0.82	6.18	2.70	79.63	0.77	5.47	0.67	4.26	21
22			0.77	5.47	0.81	6.02	1.50	22.19	0.75	5.21	0.67	4.26	22
23			0.67	4.26	0.80	5.89	1.30	16.24	0.78	5.60	0.66	4.15	23
24			0.65	4.04	0.84	6.48	2.00	41.60	0.80	5.89	0.66	4.15	24
25			0.72	4.82	1.55	23.85	1.78	32.26	0.81	6.02	0.66	4.15	25
26			0.65	4.04	1.60	25.56	1.64	26.72	0.78	5.60	0.66	4.15	26
27			0.70	4.59	1.40	19.08	1.64	26.72	0.77	5.47	0.67	4.26	27
28			0.72	4.82	1.50	22.19	1.61	25.90	0.79	5.74	0.66	4.15	28
29			0.78	5.60	1.50	22.19	0.90	7.43	0.78	5.60	0.66	4.15	29
30			0.75	5.21	2.01	42.06	0.86	6.79	0.81	6.02	0.66	4.15	30
31			0.86	6.79			0.98	8.86					31
MAX				31.49		42.06		79.63		31.09		6.64	MAX
MIN				3.57		4.59		5.89		5.21		4.15	MIN
TOTAL				336.29		350.83		760.74		330.37		140.34	TOTAL
DAYS													DAYS
MEAN				10.85		11.69		24.54		11.01		4.68	MEAN

H : Gauge height in _____, Q : Discharge in _____ N.K.Form No.1202

Zero point of water gauge : El. _____

HQD-1

WATER LEVEL AND DISCHARGE

STATION KRONG BUK

River system: SREPOK Name of stream: KRONG BUK Drainage area (Km²): 460.0 Year 1964

	Jan		Feb		Mar		Apr		May		June		
	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q	
1	0.66	4.15	0.46	2.54	0.40	2.25	0.44	2.44	0.40	2.25	0.60	3.57	1
2	0.66	4.15	0.45	2.48	0.40	2.25	0.55	3.14	0.60	3.57	0.60	3.57	2
3	0.65	4.04	0.45	2.48	0.40	2.25	0.51	2.84	0.72	4.82	0.56	3.21	3
4	0.65	4.04	0.45	2.48	0.40	2.25	0.51	2.84	0.72	4.82	0.54	3.06	4
5	0.65	4.04	0.45	2.48	0.40	2.25	0.51	2.84	0.72	4.82	0.54	3.06	5
6	0.65	4.04	0.45	2.48	0.42	2.36	0.49	2.70	0.75	5.21	0.56	3.21	6
7	0.63	3.83	0.44	2.44	0.44	2.44	0.47	2.59	0.75	5.21	0.56	3.21	7
8	0.63	3.83	0.44	2.44	0.43	2.40	0.55	3.14	0.75	5.21	0.56	3.21	8
9	0.63	3.83	0.44	2.44	0.41	2.29	0.56	3.21	0.51	2.84	0.56	3.21	9
10	0.63	3.83	0.44	2.44	0.41	2.29	0.56	3.21	0.50	2.77	0.56	3.21	10
11	0.63	3.83	0.43	2.40	0.41	2.29	0.56	3.21	0.50	2.77	0.54	3.06	11
12	0.62	3.74	0.43	2.40	0.41	2.29	0.49	2.70	0.54	3.06	0.50	2.77	12
13	0.62	3.74	0.45	2.48	0.41	2.29	0.49	2.70	0.56	3.21	0.50	2.77	13
14	0.62	3.74	0.44	2.44	0.42	2.36	0.49	2.70	0.52	2.90	0.50	2.77	14
15	0.60	3.57	0.54	3.06	0.43	2.40	0.49	2.70	0.63	3.83	0.56	3.21	15
16	0.60	3.57	0.44	2.44	0.43	2.40	0.49	2.70	0.63	3.83	0.56	3.21	16
17	0.60	3.57	0.45	2.48	0.43	2.40	0.49	2.70	0.51	2.84	0.56	3.21	17
18	0.60	3.57	0.45	2.48	0.42	2.36	0.41	2.29	0.51	2.84	0.56	3.21	18
19	0.60	3.57	0.44	2.44	0.46	2.54	0.41	2.29	0.54	3.06	0.45	2.48	19
20	0.60	3.57	0.44	2.44	0.46	2.54	0.41	2.29	0.54	3.06	0.45	2.48	20
21	0.60	3.57	0.43	2.40	0.46	2.54	0.40	2.25	0.51	2.84	0.56	3.21	21
22	0.60	3.57	0.43	2.40	0.47	2.59	0.40	2.25	0.52	2.90	0.56	3.21	22
23	0.60	3.57	0.42	2.36	0.47	2.59	0.40	2.25	0.51	2.84	0.62	3.74	23
24	0.59	3.46	0.41	2.29	0.47	2.59	0.40	2.25	0.52	2.90	0.52	2.90	24
25	0.58	3.34	0.41	2.29	0.48	2.64	0.40	2.25	0.54	3.06	0.62	3.74	25
26	0.58	3.34	0.41	2.29	0.54	3.06	0.40	2.25	0.54	3.06	0.52	2.90	26
27	0.58	3.34	0.40	2.25	0.54	3.06	0.40	2.25	0.54	3.06	0.52	2.90	27
28	0.56	3.21	0.40	2.25	0.44	2.44	0.40	2.25	0.65	4.04	0.54	3.06	28
29	0.51	2.84	0.40	2.25	0.44	2.44	0.40	2.25	0.54	3.06	0.54	3.06	29
30	0.51	2.84			0.44	2.44	0.40	2.25	0.54	3.06	0.54	3.06	30
31	0.56	3.21			0.44	2.44			0.54	3.06			31
MAX		4.15		3.06		3.06		3.21		5.21		3.57	MAX
MIN		2.84		2.25		2.25		2.25		2.25		2.48	MIN
TOTAL		112.54		70.54		75.73		77.73		106.8		93.47	TOTAL
DAYS													DAYS
MEAN		3.63		2.43		2.44		2.59		3.45		3.12	MEAN

H : Gauge height in_____, Q : Discharge in_____,

Zero point of water gauge : El._____

N.K.Form №1201

HQD-2

WATER LEVEL AND DISCHARGE

STATION KRONG BUK

River system: SREPOK Name of stream: KRONG POK Drainage area (Km²): 460.0 Year 1964

	July		Aug		Sept		Oct		Nov		Dec		
	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q	
1	0.64	3.94	0.54	3.06	0.79	5.74	1.60	25.56	1.80	16.24	0.80	5.89	1
2	0.84	6.48	0.56	3.21	0.74	5.08	1.60	25.56	1.50	22.19	0.70	4.59	2
3	0.70	4.59	0.54	3.06	0.84	6.48	1.10	11.33	1.20	13.65	1.00	9.25	3
4	0.70	4.59	0.55	3.14	1.90	37.20	1.20	13.65	1.40	19.08	0.70	7.43	4
5	0.77	5.47	0.80	5.89	0.76	5.34	1.70	29.18	1.20	13.65	0.70	4.59	5
6	0.75	5.21	0.70	4.59	0.80	5.89	1.60	25.56	1.20	13.65	0.70	4.59	6
7	0.64	3.94	0.86	6.79	0.71	4.71	1.10	11.33	2.20	51.17	0.70	4.59	7
8	0.67	4.26	0.83	6.32	0.72	4.82	1.00	9.25	2.40	61.78	0.67	4.26	8
9	0.65	4.04	0.82	6.18	0.75	5.21	1.10	11.33	2.40	61.78	0.67	4.26	9
10	0.63	3.83	0.80	5.89	0.80	5.89	1.00	9.25	2.30	56.35	0.65	4.04	10
11	0.67	4.26	0.75	5.21	0.60	3.57	1.00	9.25	2.30	56.35	4.40	130.33	11
12	0.64	3.94	0.64	3,94	0.60	3.57	0.15	8.32	2.20	51.17	3.80	86.10	12
13	0.54	3.06	0.64	3.94	0.68	4.35	0.90	7.43	4.50	235.61	1.60	25.56	13
14	0.52	2.90	1.00	9.25	0.90	7.43	0.85	6.64	3.50	138.61	1.40	19.08	14
15	0.52	2.90	1.95	8.32	1.35	17.64	0.85	6.64	2.60	73.43	1.20	13.65	15
16	0.52	2.90	0.81	6.02	1.34	17.35	0.85	6.64	2.80	86.10	1.00	9.25	16
17	0.51	2.84	0.50	2.77	1.00	9.25	0.75	5.21	2.50	67.47	1.00	9.25	17
18	0.54	3.06	0.50	2.77	0.70	4.59	0.75	5.21	1.80	33.06	1.00	9.25	18
19	0.64	3.94	0.66	4.15	0.64	3.94	0.90	7.43	1.80	33.06	0.90	7.43	19
20	0.61	3.64	0.68	4.35	0.70	4.59	0.90	7.43	1.40	19.08	0.85	6.64	20
21	0.60	3.57	0.68	4.35	0.70	4.59	0.90	7.43	1.20	13.65	0.85	6.64	21
22	0.56	3.21	0.50	2.77	1.50	22.19	0.87	6.95	1.40	19.08	0.82	6.18	22
23	0.52	2.90	0.68	4.35	1.60	25.56	0.87	6.95	1.20	13.65	0.80	5.89	23
24	0.51	2.84	0.68	4.35	1.10	11.33	1.94	8.14	1.10	11.33	0.80	5.89	24
25	0.55	3.14	0.62	3.74	1.30	16.24	1.10	11.33	1.10	11.33	0.78	5.60	25
26	0.55	3.14	0.66	4.15	1.50	22.19	1.00	9.25	1.10	11.33	0.77	5.47	26
27	0.50	2.77	1.30	16.24	1.10	11.33	1.00	9.25	1.00	9.25	0.73	4.95	27
28	0.50	2.77	0.95	8.32	1.10	11.33	1.30	16.24	0.90	7.43	0.72	4.82	28
29	0.60	3.57	0.75	5.21	1.50	22.19	1.30	16.24	0.90	7.43	0.70	4.59	29
30	0.57	3.27	0.77	5.47	1.00	9.25	1.40	19.08	0.90	7.43	0.72	4.82	30
31	0.56	3.21	0.78	5.60			1.60	25.56			0.70	4.59	31
MAX		6.48		16.24		37.20		29.18		235.61		130.33	MAX
MIN		2.77		2.77		3.57		5.21		7.43		4.04	MIN
TOTAL		114.18		163.40		318.84		378.62		1235.39		429.47	TOTAL
DAYS													DAYS
MEAN		3.68		5.27		10.63		12.21		41.18		13.85	MEAN

H : Gauge height in_____, Q : Discharge in_____

Zero point of water gauge : El._____

N.K.Form No.1202

HQD-1

WATER LEVEL AND DISCHARGE

STATION KRONG BUK

River system. SREPOK Name of stream: KRONG BUK Drainage area (Km²): 460.0 Year 1965

	Jan		Feb		Mar		Apr		May		June		
	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q	
1	0.70	4.59	0.69	4.47	0.59	3.46							1
2	0.70	4.59	0.68	4.35	0.59	3.46							2
3	0.70	4.59	0.67	4.26	0.41	2.29							3
4	0.70	4.59	0.67	4.26	0.41	2.29							4
5	0.65	4.04	0.67	4.26	0.41	2.29							5
6	0.62	3.74	0.67	4.26	0.42	2.36							6
7	0.61	3.64	0.68	4.35	0.42	2.36							7
8	0.60	3.57	0.51	2.84	0.42	2.36							8
9	0.60	3.57	0.51	2.84	0.42	2.36							9
10	0.61	3.64	0.52	2.90	0.42	2.36							10
11	0.61	3.64	0.53	2.98	0.42	2.36							11
12	0.62	3.74	0.53	2.98	0.43	2.40							12
13	0.60	3.57	0.54	3.06	0.43	2.40							13
14	0.61	3.64	0.54	3.06	0.43	2.40							14
15	0.62	3.74	0.54	3.06	0.43	2.40							15
16	0.60	3.57	0.55	3.14	0.44	2.44							16
17	0.63	3.83	0.55	3.14	0.44	2.44							17
18	0.62	3.74	0.55	3.14	0.44	2.44							18
19	0.64	3.94	0.54	3.06	0.44	2.44							19
20	0.63	3.83	0.54	3.06	0.44	2.44							20
21	0.63	3.83	0.55	3.14	0.44	2.44							21
22	0.62	3.74	0.58	3.34	0.45	2.48							22
23	0.65	4.04	0.58	3.34	0.45	2.48							23
24	0.66	4.15	0.58	3.34	0.45	2.48							24
25	0.67	4.26	0.59	3.46	0.46	2.54							25
26	0.67	4.26	0.59	3.46	0.47	2.59							26
27	0.67	4.26	0.59	3.46	0.32	2.02							27
28	0.68	4.35	0.59	3.46	0.36	2.12							28
29	0.67	4.26											29
30	0.68	4.35											30
31	0.68	4.35											31
MAX		4.59		4.47		3.46							MAX
MIN		3.57		2.84		2.02							MIN
TOTAL		123.65		96.47		68.90							TOTAL
DAYS													DAYS
MEAN		3.99		3.45		2.46							MEAN

H : Gauge height in_____, Q : Discharge in_____, N.K.Form A61201

Zero point of water gauge : El._____

WATER LEVEL AND DISCHARGE

STATION KANA Year 1961

River system : MEKONG Name of stream : UPPER SREPOK Drainage area (km²) : 3,210

	OCT.		NOV.		DEC.	
	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)
1	1.78	38.5	2.48	67.0	1.96	45.5
2	1.95	45.5	2.38	63.0	1.88	42.5
3	2.50	68.0	2.40	63.5	1.80	39.0
4	2.68	76.0	2.42	64.5	1.75	37.5
5	2.70	77.0	2.42	64.5	1.72	36.5
6	2.70	77.0	2.43	65.0	1.71	36.0
7	2.68	76.0	2.45	66.0	1.70	35.5
8	2.65	74.5	2.43	65.0	1.70	35.5
9	2.67	75.5	2.40	63.5	1.69	35.0
10	2.70	77.0	2.35	62.0	1.66	34.5
11	3.05	94.0	2.30	59.5	1.65	34.0
12	3.49	117.0	2.30	59.5	1.62	33.0
13	3.90	139.0	2.30	59.5	1.59	32.0
14	3.68	127.0	2.30	59.5	1.57	31.5
15	3.48	116.0	2.60	72.5	1.55	30.5
16	3.45	114.5	2.60	72.5	1.55	30.5
17	3.50	117.5	2.50	68.0	1.55	30.5
18	3.38	111.0	2.40	63.5	1.59	32.0
19	3.49	117.0	2.30	59.5	1.56	31.0
20	3.10	96.0	2.20	55.5	1.50	29.0
21	2.80	82.0	2.10	51.5	1.48	28.5
22	2.80	82.0	1.90	43.0	1.45	27.5
23	2.78	81.0	1.85	45.5	1.44	27.0
24	2.78	81.0	2.05	49.5	1.43	26.5
25	2.90	86.5	2.10	51.5	1.42	26.0
26	3.03	93.0	2.20	55.5	1.41	26.0
27	3.14	99.0	2.20	55.5	1.40	25.5
28	3.24	103.5	2.16	54.0	1.38	25.0
29	1.93	44.0	2.13	52.5	1.40	25.5
30	1.75	37.5	2.08	50.5	1.41	26.0
31	1.55	30.5			1.55	30.5
TOTAL		2,654.0		1,782.5		1,985.5
DAYS						
MEAN		85.6		59.4		31.8
MAX.						
MIN.						

NB Water level in meters arbitrary zero.
Arbitrary zero is _____ meters above M.S.L.

NIPPON KOEI CO., LTD. TOKYO

TABLE

WATER LEVEL AND DISCHARGE

STATION KANA Year 1962

River system: MEKONG Name of stream: UPPER SREPOK Drainage area (km^2): 3,210

	JAN.		FEB.		MAR.		APR.		MAY		JUNE	
	W. L. (M)	DIS. (M^3/S)	W. L. (M)	DIS. (M^3/S)	W. L. (M)	DIS. (M^3/S)	W. L. (M)	DIS. (M^3/S)	W. L. (M)	DIS. (M^3/S)	W. L. (M)	DIS. (M^3/S)
1	1.65	34.0	1.24	21.0	1.03	16.0	0.78	10.0	0.84	11.5	0.86	12.0
2	1.67	34.5	1.24	21.0	1.02	15.5	0.78	10.0	0.90	13.0	1.10	17.0
3	1.67	34.5	1.23	21.0	1.03	16.0	0.77	10.0	0.95	14.0	1.70	35.5
4	1.72	36.5	1.24	21.0	1.05	16.5	0.76	9.5	0.96	14.5	0.97	14.5
5	1.51	29.0	1.25	21.5	1.05	16.5	0.76	9.5	0.97	14.5	0.88	12.5
6	1.47	28.0	1.24	21.0	1.04	16.5	0.76	9.5	0.95	14.0	0.86	12.0
7	1.43	26.5	1.20	20.0	1.04	16.5	0.75	9.5	0.87	12.5	0.80	10.5
8	1.40	25.5	1.19	20.0	1.04	16.5	0.75	9.5	0.80	10.5	0.80	10.5
9	1.40	25.5	1.17	19.0	0.91	13.0	0.78	10.0	0.81	11.0	0.86	12.0
10	1.37	24.5	1.15	18.5	0.94	13.5	0.76	9.5	0.88	12.5	0.86	12.0
11	1.35	24.0	1.14	18.5	0.92	13.0	0.74	9.5	0.84	11.5	0.85	12.0
12	1.35	24.0	1.13	18.0	0.90	13.0	0.72	9.0	0.75	9.5	0.82	11.0
13	1.35	24.0	1.12	18.0	0.89	13.0	0.71	9.0	0.72	9.0	0.81	11.0
14	1.33	23.5	1.11	17.5	0.88	12.5	0.70	9.0	0.70	9.0	0.76	9.5
15	1.32	23.5	1.10	17.0	0.87	12.5	0.68	8.5	0.68	8.5	0.80	10.5
16	1.30	23.0	1.09	17.0	0.86	12.0	0.68	8.5	0.67	8.0	0.84	11.5
17	1.28	22.5	1.10	17.0	0.85	12.0	0.71	9.0	0.69	9.0	0.77	10.0
18	1.28	22.5	1.10	17.0	0.85	12.0	0.80	10.5	0.82	11.0	1.04	16.5
19	1.28	22.5	1.11	17.5	0.85	12.0	0.84	11.5	0.78	10.0	1.36	24.5
20	1.34	24.0	1.12	18.0	0.84	11.5	0.84	11.5	0.77	10.0	1.35	24.0
21	1.34	24.0	1.10	17.0	0.84	11.5	0.82	11.0	0.82	11.0	1.20	20.0
22	1.34	24.0	1.08	17.0	0.83	11.0	0.78	10.0	0.84	11.5	1.14	18.5
23	1.40	25.5	1.05	16.5	0.83	11.0	0.72	9.0	1.20	20.0	0.99	15.0
24	1.46	28.0	1.04	16.5	0.82	11.0	0.70	9.0	1.33	23.5	1.05	16.5
25	1.40	25.5	1.03	16.0	0.81	11.0	0.68	8.5	1.36	24.5	0.98	15.0
26	1.35	24.0	1.02	15.5	0.81	11.0	0.73	9.5	1.21	20.0	0.95	14.0
27	1.30	23.0	1.01	15.0	0.81	11.0	0.78	10.0	1.20	20.0	0.91	13.0
28	1.28	22.5	1.00	15.0	0.80	10.5	0.82	11.0	0.99	15.0	0.85	12.0
29	1.26	21.5			0.80	10.5	0.85	12.0	0.80	10.5	0.78	10.0
30	1.24	21.0			0.80	10.5	0.84	11.5	0.92	13.0	0.76	9.5
31	1.20	20.0			0.79	10.5			0.84	11.5		
TOTAL		791.0		508.0		399.5		294.5		404.0		432.5
DAYS												
MEAN		25.5		18.1		12.9		9.8		13.0		14.4
MAX.												
MIN.												

NB Water level in meters arbitrary zero;
Arbitrary zero is _____ meters above M S L

NIPPON KOEI CO., LTD. TOKYO

TABLE

WATER LEVEL AND DISCHARGE

STATION KANA Year 1962

River system: MEKONG Name of stream: UPPER SREPOK Drainage area (km²): 3,210

	JULY		AUG.		SEP.		OCT.		NOV.		DEC.	
	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)
1	0.99	15.0	3.90	139.0	1.90	43.0			6.00	400.0	5.86	379.0
2	0.85	12.0	4.18	153.5	1.72	36.5			6.00	400.0	5.91	386.0
3	0.96	14.5	4.26	158.0	1.69	35.0			6.00	400.0	5.97	395.0
4	0.98	15.0	4.12	150.5	1.69	35.0			5.60	342.0	5.97	395.0
5	0.90	13.0	4.00	144.0	1.70	35.5			5.67	352.0	5.90	385.0
6	0.99	15.0	4.10	149.5	1.80	39.0			5.52	331.0	5.70	356.0
7	1.20	20.0	4.00	144.0	1.81	39.5			5.66	350.0	5.48	326.0
8	1.29	23.0	3.80	134.0	1.80	39.0			5.80	370.0	5.17	285.0
9	1.70	35.5	3.47	115.5	1.98	46.0			5.88	382.0	4.89	250.0
10	1.74	37.0	3.35	109.5	2.00	47.0			5.92	388.0	4.62	220.0
11	1.57	31.5	3.32	108.0	2.18	55.0			5.94	391.0	4.30	186.0
12	2.43	65.0	3.28	106.0	2.20	55.5			5.72	359.0	4.10	167.0
13	2.47	66.5	3.28	106.0	2.22	56.0			5.67	352.0	3.91	149.0
14	2.46	66.0	2.93	88.0	2.78	81.0			5.14	281.0	3.77	137.0
15	2.27	58.5	2.78	81.0	2.90	86.5			4.93	256.0	3.62	124.0
16	1.98	46.0	2.65	74.5	2.88	86.0			4.93	256.0	3.91	149.0
17	1.79	39.0	2.45	66.0	2.89	86.5			4.67	226.0	3.35	103.0
18	2.00	47.0	2.44	65.5	3.20	102.0			4.29	187.0	3.24	96.0
19	2.00	47.0	2.40	63.5	3.34	109.0			4.15	171.5	3.19	92.0
20	1.98	46.0	2.38	63.0	3.54	119.5			3.92	152.0	3.10	86.0
21	1.78	38.5	2.12	52.0	3.73	129.5			3.72	133.0	3.08	82.0
22	1.52	29.5	2.00	47.0	3.99	143.5			3.80	139.5	2.97	78.0
23	1.33	23.5	1.90	43.0	4.00	144.0			3.78	138.0	2.85	70.0
24	1.34	24.0	1.84	41.0	4.61	177.0			3.70	131.0	2.80	67.0
25	1.42	26.0	1.97	45.5	4.74	185.0			4.28	184.0	2.70	62.0
26	1.37	24.5	2.08	50.5	4.69	182.5			4.67	226.0	2.68	61.0
27	1.36	24.5	2.15	53.5	4.52	172.5			5.14	281.0	2.67	60.0
28	1.46	28.0	2.20	55.5	4.46	169.0			5.47	324.0	2.58	55.0
29	2.55	71.0	2.00	47.0	4.21	155.0			5.51	330.0	2.55	54.0
30	2.76	79.5	2.05	49.5	4.19	154.5			5.72	359.0	2.50	51.0
31	2.98	91.0	1.99	47.0							2.50	51.0
TOTAL		1,172.5		2,750.5		2,845.0				8,592.0		5,360.0
DAYS												
MEAN		37.8		88.7		94.8				286.4		172.9
MAX.												
MIN.												

NB Water level in meters arbitrary zero.
Arbitrary zero is _____ meters above M. S. L.

NIPPON KOEI CO., LTD. TOKYO

TABLE

WATER LEVEL AND DISCHARGE

STATION KANA Year 1963

River system : MEKONG Name of stream : KRONG ANA Drainage area (km^2) : 3,210

	JAN.		FEB.		MAR.		APR.		MAY		JUN.	
	W. L. (M)	DIS. (M^3/S)	W. L. (M)	DIS. (M^3/S)	W. L. (M)	DIS. (M^3/S)	W. L. (M)	DIS. (M^3/S)	W. L. (M)	DIS. (M^3/S)	W. L. (M)	DIS. (M^3/S)
1	2.56	54.0	1.80	24.0	1.42	15.0	1.18	12.0	0.97	10.3	1.30	13.4
2	2.55	54.0	1.79	24.0	1.42	15.0	1.17	12.0	0.94	10.2	1.24	12.6
3	2.47	50.0	1.77	23.0	1.40	15.0	1.16	12.0	0.95	10.2	1.17	11.8
4	2.40	47.0	1.77	23.0	1.40	15.0	1.15	12.0	0.93	10.1	1.10	11.2
5	2.35	44.0	1.76	23.0	1.40	15.0	1.15	12.0	0.94	10.2	1.17	11.8
6	2.31	43.0	1.75	23.0	1.38	15.0	1.14	12.0	0.93	10.1	1.10	11.2
7	2.31	43.0	1.71	22.0	1.37	15.0	1.13	11.0	0.94	10.2	1.08	11.0
8	2.29	42.0	1.70	21.0	1.36	14.0	1.12	11.0	1.05	10.8	0.99	10.4
9	2.28	41.0	1.70	21.0	1.41	15.0	1.11	11.0	0.97	10.3	0.99	10.4
10	2.19	38.0	1.67	21.0	1.30	13.0	1.10	11.0	0.95	10.2	0.97	10.3
11	2.13	35.0	1.65	20.0	1.40	15.0	1.10	11.0	0.93	10.1	0.94	10.2
12	2.12	35.0	1.64	20.0	1.35	14.0	1.11	11.0	0.93	10.1	0.95	10.2
13	2.10	34.0	1.64	20.0	1.34	14.0	1.11	11.0	0.91	10.1	0.95	10.2
14	2.08	33.0	1.60	19.0	1.30	13.0	1.11	11.0	0.91	10.1	0.90	10.0
15	2.04	32.0	1.60	19.0	1.39	15.0	1.10	11.0	0.90	10.0	0.82	9.9
16	2.03	32.0	1.59	19.0	1.37	15.0	1.11	11.0	0.90	10.0	0.90	10.0
17	2.04	32.0	1.58	19.0	1.30	13.0	1.12	11.0	0.90	10.0	0.95	10.2
18	2.00	31.0	1.56	18.0	1.27	13.0	1.11	11.0	0.88	10.0	0.90	10.0
19	2.02	31.0	1.54	18.0	1.26	13.0	1.18	12.0	0.89	10.0	1.00	10.4
20	2.01	31.0	1.54	18.0	1.26	13.0	1.16	12.0	0.90	10.0	1.20	12.2
21	1.99	30.0	1.53	17.5	1.26	13.0	1.12	11.0	0.93	10.1	1.30	13.4
22	1.97	30.0	1.52	17.0	1.25	13.0	1.10	11.0	1.00	10.4	1.50	16.9
23	1.94	29.0	1.51	17.0	1.23	13.0	1.08	11.0	1.13	11.4	1.40	15.0
24	1.90	27.0	1.49	17.0	1.22	12.0	1.07	11.0	1.23	12.5	1.38	14.7
25	1.91	28.0	1.48	16.5	1.22	12.0	1.08	11.0	1.29	13.3	1.20	12.2
26	1.93	28.0	1.47	16.0	1.22	12.0	1.07	11.0	1.20	12.2	1.12	11.3
27	1.90	27.0	1.46	16.0	1.21	12.0	1.07	11.0	1.26	12.9	1.10	11.2
28	1.89	27.0	1.45	16.0	1.19	12.0	1.04	11.0	1.40	15.0	1.21	12.3
29	1.88	27.0			1.18	12.0	1.02	11.0	1.27	13.0	1.20	12.2
30	1.84	25.0			1.17	12.0	0.98	10.0	1.20	12.2	1.20	12.2
31	1.81	24.5			1.17	12.0			1.29	13.3		
TOTAL		1,084.5		558.0		405.0		337.0		339.3		348.8
DAYS										31		30
MEAN		34.98		19.93		13.06		11.13		10.9		11.6
MAX.												
MIN.												

NB Water level in meters arbitrary zero.
Arbitrary zero is _____ meters above M. S. L.

NIPPON KOEI CO., LTD. TOKYO

WATER LEVEL AND DISCHARGE TABLE

STATION KANA Year 1963

River system : MEKONG Name of stream : KRONG ANA [illegible] Drainage area (km²) : 3,210

	JULY		AUG.		SEP.		OCT.		NOV.		DEC.	
	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)
1	2.22	38.8	2.10	34.1	3.22	94.1	5.00	264.1	3.52	116.4		
2	2.20	38.0	2.15	36.0	3.20	92.7	5.30	301.7	3.40	107.2		
3	2.09	33.8	2.25	38.8	4.15	171.5	5.55	335.1	3.31	100.5		
4	2.10	34.1	2.40	46.6	4.45	201.8	5.60	342.0	3.20	92.7		
5	2.15	36.0	2.46	49.5	4.55	212.5	5.66	350.3	2.90	148.2		
6	2.19	37.8	2.55	53.9	4.60	217.9	5.70	355.9	2.85	143.8		
7	2.21	38.4	2.50	51.4	4.50	207.1	5.61	343.3	2.62	57.5		
8	2.22	38.8	2.46	49.5	3.90	148.0	5.51	329.6	2.60	56.4		
9	2.19	37.8	2.51	51.9	3.72	132.6	5.20	288.9	2.40	46.6		
10	2.22	39.2	2.85	70.3	3.15	89.3	4.70	229.0	2.22	38.8		
11	2.23	39.2	2.98	78.2	2.90	73.3	4.20	176.4	2.15	36.0		
12	2.23	39.2	2.96	77.0	2.62	57.5	3.81	140.3	2.21	38.4		
13	2.20	38.0	2.98	78.2	2.21	38.4	3.21	93.4	2.25	40.1		
14	2.00	30.5	3.15	89.3	2.15	36.0	3.15	89.3	2.27	40.9		
15	2.10	34.1	2.97	77.6	2.12	34.9	3.20	92.7	2.21	38.4		
16	2.11	34.5	2.90	73.3	2.10	34.1	3.30	99.8	2.18	37.2		
17	2.04	32.1	2.85	70.3	2.26	34.1	3.20	92.7	2.12	34.9		
18	1.96	29.2	2.81	68.0	2.25	38.8	3.40	107.2	2.10	34.1		
19	1.96	29.2	2.46	49.5	3.10	86.0	3.42	108.7	2.07	33.0		
20	1.98	29.8	2.72	62.9	3.56	119.5	3.26	96.8	2.05	32.3		
21	1.98	29.8	2.91	63.9	3.84	142.9	4.30	186.3	2.20	38.0		
22	1.99	30.2	3.15	89.3	3.20	92.7	4.75	234.7	2.30	42.2		
23	1.98	29.8	3.18	91.4	3.15	89.3	5.00	264.1	2.40	46.6		
24	1.90	27.2	3.20	92.7	3.62	124.3	5.10	276.3	2.30	42.2		
25	1.98	29.8	3.25	96.2	3.61	123.5	5.00	264.1	2.45	49.0		
26	1.97	29.5	3.27	97.1	3.75	135.2	4.90	252.1	2.40	46.6		
27	1.95	29.0	3.20	92.7	3.72	132.6	4.85	246.2	2.35	44.8		
28	1.94	28.5	3.26	96.9	3.96	153.7	4.70	229.0	2.32	43.1		
29	2.15	36.0	3.31	100.5	4.80	240.4	4.52	209.2	2.35	44.8		
30	2.00	30.5	3.36	104.2	4.90	252.1	4.20	176.4	2.25	40.1		
31	2.05	32.3	3.30	99.8			3.82	141.2				
TOTAL		1,041.1		2,231.0		3,606.8		6,656.8		1,710.8		
DAYS		31		31		30		31		30		
MEAN		33.6		72.0		120.2		241.7		57.0		
MAX.												
MIN.												

NB Water level in meters arbitrary zero.
Arbitrary zero is _____ meters above M. S L.

NIPPON KOEI CO., LTD. TOKYO

HQD-1

WATER LEVEL AND DISCHARGE

STATION KANA

River system: MEKONG Name of stream: KRONG ANA Drainage area (Km²): 3,210 Year 1964

	Jan		Feb		Mar		Apr		May		June		
	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q	
1			1.11	14.6	1.10	14.2	0.87	11.8	0.70	10.9	1.20	15.6	1
2			1.10	14.3	1.07	13.8	0.88	11.9	0.70	10.9	1.17	15.1	2
3			1.09	14.1	1.05	13.6	0.88	11.9	0.72	10.9	1.15	14.9	3
4			1.08	13.8	1.04	13.5	0.87	11.8	0.79	11.3	1.14	14.7	4
5			1.12	14.9	1.03	13.3	0.87	11.8	0.87	11.8	1.14	14.7	5
6			1.18	16.5	1.02	13.2	0.87	11.8	0.92	12.2	1.13	14.6	6
7			1.20	17.0	1.02	13.2	0.87	11.8	1.04	13.5	1.12	14.4	7
8			1.25	18.4	1.02	13.2	0.87	11.8	1.13	14.6	1.10	14.2	8
9			1.30	19.8	1.02	13.2	0.87	11.8	1.11	14.3	1.09	14.0	9
10			1.20	17.0	1.01	13.1	0.85	11.7	1.09	14.0	1.07	13.8	10
11			1.13	15.1	0.97	12.7	0.84	11.6	0.99	12.9	1.04	13.5	11
12			1.11	14.6	0.96	12.6	0.82	11.5	0.97	12.7	1.02	13.2	12
13			1.11	14.6	0.96	12.6	0.82	11.5	0.94	12.4	1.06	13.7	13
14			1.12	14.9	0.97	12.7	0.81	11.4	0.94	12.4	1.10	14.2	14
15			1.21	17.3	0.96	12.6	0.81	11.4	0.93	12.3	1.13	14.6	15
16			1.29	19.5	0.94	12.4	0.79	11.3	0.98	12.8	1.24	16.2	16
17			1.30	19.8	0.91	12.1	0.76	11.1	1.03	13.3	1.36	18.3	17
18			1.20	17.0	0.90	12.1	0.75	11.1	1.07	13.8	1.39	18.8	18
19			1.17	16.2	0.89	12.0	0.74	11.0	0.99	12.9	1.39	18.8	19
20			1.14	15.4	0.88	11.9	0.74	11.0	1.02	13.2	1.37	18.5	20
21			1.13	15.1	0.88	11.9	0.74	11.0	1.05	13.6	1.37	18.5	21
22			1.15	15.7	0.88	11.9	0.73	11.0	1.03	13.3	1.38	18.7	22
23			1.09	14.1	0.88	11.9	0.73	11.0	0.99	12.9	1.40	19.0	23
24			1.07	13.5	0.88	11.9	0.72	10.9	1.01	13.1	1.42	19.4	24
25			1.05	13.0	0.88	11.9	0.72	10.9	1.04	13.5	1.46	20.3	25
26			1.04	12.7	0.87	11.8	0.72	10.9	1.06	13.7	1.41	19.2	26
27			1.06	13.3	0.87	11.8	0.72	10.9	1.10	14.2	1.33	17.7	27
28			1.11	14.6	0.87	11.8	0.71	10.9	1.13	14.6	1.20	15.6	28
29			1.12	14.9	0.87	11.8	0.71	10.9	1.17	15.1	1.12	14.4	29
30	1.14	15.4			0.87	11.8	0.71	10.9	1.22	15.9	0.97	12.7	30
31	1.12	14.9			0.87	11.8			1.21	15.7			31
MAX				19.8		14.2		11.9		15.9		20.3	MAX
MIN				12.7		11.8		10.9		10.9		12.7	MIN
TOTAL				451.7		388.3		340.3		408.7		495.5	TOTAL
DAYS				29		31		30		31		30	DAYS
MEAN				15.6		12.5		11.3		13.2		16.5	MEAN

H : Gauge height in_____, Q : Discharge in_____.

Zero point of water gauge : El._____

HQD-2

WATER LEVEL AND DISCHARGE

STATION KANA

River system. MEKONG Name of stream: KRONG ANA Drainage area (Km²): 3,210 Year 1964

	July		Aug		Sept		Oct		Nov		Dec		
	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q	
1	1.03	13.3	1.66	24.9	2.19	41.6	2.45	52.2	3.17	89.3	4.78	205.0	1
2	1.11	14.3	1.60	23.4	2.08	37.6	2.69	63.2	3.48	108.9	4.46	185.3	2
3	1.19	15.4	1.72	26.5	1.99	34.6	2.79	68.2	3.69	133.5	4.18	151.3	3
4	1.32	17.5	1.91	31.9	1.99	34.6	2.86	71.9	3.71	124.9	3.80	131.5	4
5	1.30	17.2	2.05	36.6	1.99	34.6	2.90	74.0	3.84	134.5	3.52	111.6	5
6	1.17	15.1	2.17	40.9	1.97	34.0	2.92	75.1	4.03	149.1	3.31	97.9	6
7	1.06	13.7	2.30	45.9	1.94	33.0	2.85	71.4	4.21	163.8	3.10	85.2	7
8	1.02	13.2	2.50	54.4	1.88	31.1	2.77	67.2	4.54	192.5	2.93	75.6	8
9	1.00	13.0	2.32	46.7	1.81	29.0	2.65	61.3			2.97	77.8	9
10	0.99	12.9	2.27	44.7	1.72	26.5	2.53	55.7			3.30	97.3	10
11	0.99	12.9	2.21	42.4	1.61	23.7	2.40	50.0					11
12	0.98	12.8	2.12	39.1	1.46	20.3	2.36	48.3					12
13	1.02	13.2	2.00	34.9	1.31	17.4	2.19	41.6					13
14	1.02	13.2	1.89	31.4	1.32	17.5	2.01	35.2					14
15	1.03	13.3	1.80	28.7	1.39	18.8	1.99	34.6					15
16	1.03	13.3	1.78	28.1	1.48	20.7	1.88	31.1					16
17	1.02	13.2	1.64	24.4	1.59	23.2	1.74	27.0					17
18	1.01	13.1	1.56	22.5	1.71	26.2	1.62	23.9					18
19	1.00	13.0	1.48	20.7	1.82	29.3	1.62	23.9					19
20	1.09	14.0	1.37	18.5	1.98	34.2	1.61	23.7					20
21	1.23	16.0	1.25	16.0	2.02	35.6	1.61	23.7					21
22	1.41	19.2	1.18	15.3	2.05	36.6	1.62	23.9					22
23	1.60	23.4	1.10	14.2	2.09	38.0	1.64	24.4					23
24	1.52	21.6	1.19	15.4	2.12	39.1	1.67	25.2					24
25	1.46	20.3	1.27	16.7	2.21	42.4	1.67	25.2					25
26	1.39	18.8	1.44	19.9	2.30	45.9	1.68	25.4					26
27	1.29	17.0	1.68	25.4	2.30	45.9	1.69	25.7					27
28	1.25	16.4	1.89	31.4	2.27	44.7	1.98	34.2					28
29	1.28	16.9	2.11	38.7	2.29	45.5	2.26	44.3					29
30	1.37	18.5	2.33	48.1	2.32	46.7	2.56	57.1					30
31	1.70	26.0	2.28	45.1			2.86	72.7					31
MAX		26.0		54.4		46.7		75.1					MAX
MIN		12.8		14.2		17.4		23.7					MIN
TOTAL		491.7		952.8		988.3		1,381.3					TOTAL
DAYS		31		31		30		31					DAYS
MEAN		15.9		30.7		32.9		44.6					MEAN

H : Gauge height in_____, Q : Discharge in_____

Zero point of water gauge : El._____

N.K. Form No.1202

HQD-1

WATER LEVEL AND DISCHARGE

STATION KANA

River system: MEKONG Name of stream: KRONG ANA Drainage area (Km²): 3,210 Year 1965

	Jan		Feb		Mar		Apr		May		June		
	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q	
1	3.58	115.7	1.98	34.2	1.59	23.2							1
2	3.43	105.6	1.98	34.2	1.57	22.7							2
3	3.28	96.0	1.98	34.2	1.77	27.9							3
4	3.16	88.7	1.98	34.2	1.56	22.5							4
5	3.04	81.7	2.01	35.2	1.54	22.0							5
6	2.91	63.2	2.03	35.9	1.53	21.8							6
7	2.80	68.8	2.06	36.9	1.52	21.6							7
8	2.71	64.2	2.09	38.0	1.50	21.1							8
9	2.60	58.9	2.07	37.3	1.50	21.1							9
10	2.54	56.2	2.02	35.6	1.50	21.1							10
11	2.53	55.7	1.96	33.6	1.50	21.1							11
12	2.55	56.6	1.89	31.4	1.50	21.1							12
13	2.58	58.0	1.84	29.9	1.49	20.8							13
14	2.60	58.9	1.78	28.1	1.49	20.8							14
15	2.61	59.4	1.74	27.0	1.47	20.5							15
16	2.61	59.4	1.71	26.2	1.47	20.5							16
17	2.51	54.8	1.66	24.9	1.45	20.1							17
18	2.52	55.3	1.64	24.4	1.45	20.1							18
19	2.48	53.5	1.62	23.9	1.49	20.8							19
20	2.43	51.3	1.61	23.7	1.41	19.2							20
21	2.42	50.9	1.60	23.4	1.39	18.8							21
22	2.40	50.0	1.61	23.7	1.37	18.5							22
23	2.38	49.2	1.61	23.7	1.35	18.1							23
24	2.35	47.9	1.60	23.4	1.32	17.5							24
25	2.29	45.5	1.60	23.4	1.27	16.7							25
26	2.27	44.7	1.60	23.4	1.23	16.0							26
27	2.20	42.0	1.60	23.4	1.20	15.6							27
28	2.17	40.9	1.59	23.2	1.22	15.9							28
29	2.15	40.1			1.24	16.2							29
30	2.09	38.0			1.24	16.2							30
31	2.04	36.3			1.23	16.0							31
MAX		115.7		38.0		27.9							MAX
MIN		36.3		23.2		15.6							MIN
TOTAL		1,847.4		816.4		615.5							TOTAL
DAYS		31		28		31							DAYS
MEAN		59.6		29.2		19.9							MEAN

H : Gauge height in_____, Q : Discharge in_____,

Zero point of water gauge : El._____

TABLE

WATER LEVEL AND DISCHARGE

STATION BAN BUR Year 1961

River system : MEKONG Name of stream : UPPER SREPOK Drainage area (km²) : 8,650

							OCT.		NOV.		DEC.	
	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)
1							1.32	270.0	1.39	296.0	1.00	160.0
2							1.31	266.0	1.37	288.0	0.99	158.0
3							1.57	364.0	1.37	288.0	0.98	154.0
4							1.62	384.0	1.28	256.0	0.97	150.0
5							1.70	416.0	1.21	228.0	0.96	148.0
6							1.72	424.0	1.20	226.0	0.95	145.0
7							1.79	453.0	1.26	248.0	0.94	142.0
8							2.20	620.0	1.15	208.0	0.93	139.0
9							1.99	534.0	1.12	198.0	0.92	136.0
10							2.70	822.0	1.15	208.0	0.91	133.0
11							2.50	740.0	1.10	191.0	0.90	130.0
12							2.20	620.0	1.10	191.0	0.89	128.0
13							2.40	700.0	1.09	188.0	0.88	126.0
14							1.97	525.0	1.09	188.0	0.87	123.0
15							2.50	740.0	1.07	181.0	0.86	120.0
16							2.70	822.0	1.10	191.0	0.85	118.0
17							2.80	862.0	1.02	166.0	0.84	116.0
18							2.50	740.0	1.03	170.0	0.83	112.0
19							2.00	540.0	1.05	175.0	0.82	110.0
20							1.70	416.0	1.03	170.0	0.81	108.0
21							1.50	338.0	1.00	160.0	0.80	106.0
22							1.70	416.0	1.01	163.0	0.79	103.0
23							1.70	416.0	1.09	188.0	0.78	100.0
24							1.69	412.0	1.08	185.0	0.77	98.0
25							1.65	396.0	1.06	178.0	0.76	96.0
26							1.50	338.0	1.05	175.0	0.76	96.0
27							1.55	356.0	1.04	172.0	0.75	94.0
28							1.45	318.0	1.04	172.0	0.75	94.0
29							1.40	300.0	1.02	166.0	0.75	94.0
30							1.37	288.0	1.02	166.0	0.74	92.0
31							1.33	274.0			0.73	90.0
TOTAL								15,110.0		5,980.0		3,719.0
DAYS												
MEAN								487.4		199.3		120.0
MAX.												
MIN.												

NB Water level in meters arbitrary zero.
Arbitrary zero is _____ meters above M. S. L.

NIPPON KOEI CO., LTD. TOKYO

TABLE WATER LEVEL AND DISCHARGE

STATION BAN BUR Year 1962

River system: MEKONG Name of stream: UPPER SREPOK Drainage area (km^2): 8,650

	JAN.		FEB.		MAR.		APR.		MAY		JUNE	
	W.L. (M)	DIS. (M^3/S)	W.L. (M)	DIS. (M^3/S)	W.L. (M)	DIS. (M^3/S)	W.L. (M)	DIS. (M^3/S)	W.L. (M)	DIS. (M^3/S)	W.L. (M)	DIS. (M^3/S)
1	0.75	94.0	0.40	41.0	0.44	44.0	0.41	41.5	0.45	44.0	0.65	74.0
2	0.78	100.0	0.39	40.0	0.43	43.0	0.41	41.5	0.47	46.0	0.64	72.0
3	0.79	103.0	0.38	39.0	0.42	42.0	0.40	41.0	0.48	48.0	0.68	80.0
4	0.76	96.0	0.38	39.0	0.41	41.5	0.39	40.0	0.49	49.0	0.69	82.0
5	0.78	100.0	0.36	38.0	0.40	41.0	0.39	40.0	0.50	50.0	0.70	83.0
6	0.77	98.0	0.50	50.0	0.42	42.0	0.40	41.0	0.51	51.0	0.68	80.0
7	0.65	74.0	0.51	51.0	0.45	44.0	0.42	42.0	0.52	52.0	0.66	76.0
8	0.64	72.0	0.52	52.0	0.48	48.0	0.43	43.0	0.53	54.0	0.64	72.0
9	0.63	70.0	0.50	50.0	0.47	46.0	0.45	44.0	0.53	54.0	0.62	68.0
10	0.62	68.0	0.50	50.0	0.47	46.0	0.43	43.0	0.51	51.0	0.67	78.0
11	0.61	66.0	0.49	49.0	0.46	45.0	0.40	41.0	0.49	49.0	0.69	82.0
12	0.61	66.0	0.48	48.0	0.45	44.0	0.39	40.0	0.43	43.0	0.64	72.0
13	0.60	64.0	0.48	48.0	0.44	44.0	0.38	39.0	0.42	42.0	0.71	86.0
14	0.59	63.0	0.46	45.0	0.43	43.0	0.39	40.0	0.41	41.5	0.70	83.0
15	0.58	61.0	0.56	59.0	0.42	42.0	0.39	40.0	0.40	41.0	0.70	83.0
16	0.57	60.0	0.55	57.0	0.42	42.0	0.40	41.0	0.40	41.0	0.73	90.0
17	0.56	59.0	0.58	61.0	0.45	44.0	0.42	42.0	0.42	42.0	0.85	118.0
18	0.55	57.0	0.58	61.0	0.50	50.0	0.45	44.0	0.50	50.0	0.87	123.0
19	0.54	55.0	0.58	61.0	0.53	54.0	0.45	44.0	0.63	70.0	0.85	118.0
20	0.53	54.0	0.55	57.0	0.55	57.0	0.45	44.0	0.65	74.0	0.83	112.0
21	0.52	52.0	0.54	55.0	0.48	48.0	0.46	45.0	0.68	80.0	0.75	94.0
22	0.51	51.0	0.53	54.0	0.47	46.0	0.40	41.0	0.65	74.0	0.74	92.0
23	0.50	50.0	0.52	52.0	0.49	49.0	0.39	40.0	0.65	74.0	0.71	86.0
24	0.49	49.0	0.51	51.0	0.47	46.0	0.38	39.0	0.70	83.0	0.69	82.0
25	0.48	48.0	0.50	50.0	0.46	45.0	0.40	41.0	0.78	100.0	0.68	80.0
26	0.47	46.0	0.49	49.0	0.46	45.0	0.40	41.0	0.74	92.0	0.65	74.0
27	0.46	45.0	0.48	48.0	0.45	44.0	0.50	50.0	0.71	86.0	0.64	72.0
28	0.45	44.0	0.48	48.0	0.44	44.0	0.50	50.0	0.70	83.0	0.62	68.0
29	0.43	43.0			0.43	43.0	0.49	49.0	0.73	90.0	0.60	64.0
30	0.42	42.0			0.42	42.0	0.41	41.5	0.71	86.0	0.59	63.0
31	0.41	41.5			0.41	41.5			0.69	82.0		
TOTAL		1,991.5		1,403.0		1,396.0		1,269.5		1,922.5		2,507.0
DAYS												
MEAN		64.2		50.1		45.0		42.3		62.0		83.6
MAX.												
MIN.												

NB Water level in meters arbitrary zero.
Arbitrary zero is ____ meters above M.S.L.

NIPPON KOEI CO., LTD. TOKYO.

HQD-2

WATER LEVEL AND DISCHARGE

STATION BAN BUR

River system. _____ Name of stream: UPPER SREPOK Drainage area (Km²,. 8,650 Year 1962

	July		Aug		Sept		Oct		Nov		Dec		
	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q	
1	0.57	60.0	1.56	362.0			1.37	234.0	2.70	1,000.0	1.67	357.0	1
2	0.56	59.0	1.59	376.0			1.38	238.0	2.67	977.0	1.80	420.0	2
3	0.58	61.0	1.61	382.0			1.39	241.0	2.65	961.0	1.92	482.0	3
4	0.59	63.0	1.63	386.0			1.40	245.0	2.61	930.0	1.90	472.0	4
5	0.63	70.0	1.65	396.0			1.42	252.0	2.60	923.0	1.87	456.0	5
6	0.68	80.0	1.68	410.0			1.42	252.0	2.62	934.0	1.85	445.0	6
7	0.69	82.0	1.66	402.0			1.44	260.0	2.59	915.0	1.83	435.0	7
8	0.73	90.0	1.64	394.0			1.46	269.0	2.52	863.0	1.78	410.0	8
9	0.78	100.0	1.61	382.0			1.48	276.0	2.49	842.0	1.75	395.0	9
10	0.75	94.0	1.58	376.0			1.50	284.0	2.45	813.0	1.71	376.0	10
11	1.00	160.0	1.56	368.0			1.48	276.0	2.40	778.0	1.66	353.0	11
12	1.70	416.0	1.51	344.0			1.46	268.0	2.32	724.0	1.62	335.0	12
13	1.60	370.0	1.46	324.0			1.40	245.0	2.27	691.0	1.57	313.0	13
14	1.52	347.0	1.40	300.0			1.38	238.0	2.18	633.0	1.51	288.0	14
15	1.37	288.0	1.37	288.0			1.33	219.5	2.13	603.0	1.49	280.0	15
16	1.33	274.0	1.34	276.0			1.28	202.0	2.08	573.0	1.47	272.0	16
17	1.32	270.0	1.32	270.0			1.15	161.5	2.03	544.0	1.45	264.0	17
18	1.30	263.0	1.30	263.0			1.10	147.0	2.00	526.5	1.43	256.0	18
19	1.28	256.0	1.27	252.0			1.15	161.5	1.80	420.0	1.39	241.0	19
20	1.27	252.0	1.22	230.0			1.02	126.0	1.82	430.0	1.32	216.0	20
21	1.22	232.0	1.15	202.0			1.00	121.0	1.73	386.0	1.30	209.0	21
22	1.19	222.0	1.13	191.0			1.20	177.0	1.68	362.0	1.40	245.0	22
23	1.17	214.0	1.09	160.0			1.50	284.0	1.61	330.0	1.19	174.0	23
24	1.15	208.0	0.93	136.0			1.90	420.0	1.55	305.0	1.15	162.0	24
25	1.11	195.0	0.85	118.0			1.95	499.0	1.57	338.0	1.12	153.0	25
26	1.20	226.0	0.82	110.0			2.00	526.5	1.90	472.0	1.10	147.0	26
27	1.35	280.0	0.75	94.0			2.10	585.0	1.82	430.0	1.08	142.0	27
28	1.45	318.0	0.63	70.0			2.15	615.0	1.75	395.0	1.04	131.0	28
29	1.46	324.0	0.59	63.0			2.20	646.0	1.70	371.0	1.01	124.0	29
30	1.48	330.0	0.55	57.0			2.60	923.0	1.63	339.0	0.98	116.0	30
31	1.52	347.0	0.55	57.0			2.75	1,040.0			0.97	114.0	31
MAX		6,560.0		8,039.0				10,431.0		8,812.5		8,783,0	MAX
MIN													MIN
TOTAL		211.6		259.3				336.5		627.1		283.3	TOTAL
DAYS													DAYS
MEAN													MEAN

H : Gauge height in_____, Q : Discharge in_____

Zero point of water gauge : El._____

N.K.Form №1202

TABLE

WATER LEVEL AND DISCHARGE

STATION BAN HUR Year 1963

River system: MEKONG Name of stream: SREPOK Drainage area (km²): 8,650

	JAN.		FEB.		MAR.		APRIL		MAY		JUNE	
	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)
1	0.96	111.0	0.77	73.0	0.61	49.0	0.52	40.0	0.39	30.4	0.68	58.7
2	0.95	109.0	0.76	71.0	0.60	48.0	0.51	39.0	0.38	29.9	0.60	48.2
3	0.94	107.0	0.76	71.0	0.60	48.0	0.51	39.0	0.38	29.9	0.57	44.8
4	0.93	105.0	0.75	70.0	0.59	47.0	0.50	38.0	0.37	29.5	0.55	42.8
5	0.92	102.0	0.75	70.0	0.59	47.0	0.49	37.0	0.36	29.1	0.54	41.8
6	0.91	100.0	0.74	68.0	0.58	46.0	0.48	36.0	0.36	29.1	0.53	40.7
7	0.90	98.0	0.73	66.0	0.58	46.0	0.48	36.0	0.35	28.7	0.52	39.7
8	0.88	94.0	0.73	66.0	0.57	45.0	0.47	36.0	0.38	29.9	0.50	38.0
9	0.87	92.0	0.72	65.0	0.57	45.0	0.47	36.0	0.39	30.4	0.48	36.3
10	0.85	88.0	0.72	65.0	0.59	47.0	0.46	35.0	0.39	30.4	0.47	35.6
11	0.84	86.0	0.71	63.0	0.58	46.0	0.46	35.0	0.40	31.0	0.46	34.9
12	0.82	82.0	0.71	63.0	0.58	46.0	0.46	35.0	0.40	31.0	0.45	34.2
13	0.81	80.0	0.71	63.0	0.57	45.0	0.46	35.0	0.39	30.4	0.43	32.7
14	0.90	98.0	0.70	62.0	0.57	45.0	0.46	35.0	0.39	30.4	0.42	32.0
15	0.88	94.0	0.70	62.0	0.57	45.0	0.46	35.0	0.38	29.9	0.41	31.5
16	0.87	92.0	0.69	60.0	0.56	44.0	0.47	36.0	0.38	29.9	0.40	31.0
17	0.86	90.0	0.68	59.0	0.56	44.0	0.47	36.0	0.39	30.4	0.43	32.0
18	0.85	88.0	0.68	59.0	0.55	43.0	0.48	36.0	0.45	34.2	0.48	36.3
19	0.84	86.0	0.67	52.0	0.55	43.0	0.48	36.0	0.50	38.0	0.50	38.0
20	0.83	84.0	0.67	52.0	0.54	42.0	0.49	37.0	0.50	38.0	0.53	40.7
21	0.83	84.0	0.67	52.0	0.54	42.0	0.49	37.0	0.50	38.0	0.63	51.9
22	0.82	82.0	0.66	56.0	0.53	41.0	0.48	36.0	0.52	39.7	0.87	91.8
23	0.81	80.0	0.65	55.0	0.55	42.0	0.48	36.0	0.54	41.8	0.90	98.1
24	0.81	80.0	0.64	53.0	0.55	42.0	0.47	36.0	0.54	41.8	0.75	69.6
25	0.80	78.0	0.64	53.0	0.54	42.0	0.46	35.0	0.55	42.8	0.70	61.7
26	0.80	78.0	0.63	52.0	0.54	42.0	0.44	33.0	0.53	40.7	0.65	54.6
27	0.79	76.5	0.62	51.0	0.53	41.0	0.43	33.0	0.60	48.2	0.63	51.9
28	0.79	76.5	0.62	51.0	0.53	41.0	0.42	32.0	0.65	54.6	0.73	66.3
29	0.78	75.0			0.54	42.0	0.42	32.0	0.70	61.7	0.73	66.3
30	00.77	73.0			0.54	42.0	0.40	31.0	0.66	56.0	0.73	66.3
31	0.77	73.0			0.53	41.0			0.64	53.3		
TOTAL		2,742.0		1,703.0		1,369.0		1,069.0		1,139.1		1,453.4
DAYS										31		30
MEAN		88.5		60.8		44.2		35.6		36.7		48.4
MAX.												
MIN.												

NB Water level in meters arbitrary zero,
Arbitrary zero is _____ meters above M.S.L.

NIPPON KOEI CO., LTD. TOKYO

TABLE WATER LEVEL AND DISCHARGE

STATION BAN BUR Year 1963

River system : MEKONG Name of stream : SREPOK Drainage area (km²) : 8,650

	JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)	W.L. (M)	DIS. (M³/S)
1	6.05	45.6	0.70	61.7	1.45	264.0	1.97	509.7	1.44	260.2	0.88	93.9
2	0.63	51.9	0.85	87.8	1.68	362.0	2.05	555.1	1.42	252.5	0.86	89.8
3	0.60	48.2	0.87	91.8	1.95	498.6	2.20	645.9	1.40	245.0	0.86	89.8
4	0.59	47.1	0.90	98.1	1.98	515.3	2.29	703.7	1.38	237.6	0.86	89.8
5	0.62	50.7	0.98	116.2	2.05	555.1	2.30	710.3	1.36	230.3	0.85	87.8
6	0.65	54.6	1.02	126.1	1.95	498.6	2.36	750.5	1.34	223.1	0.88	93.9
7	0.70	61.7	1.10	147.3	1.90	471.6	2.38	764.2	1.32	216.1	0.88	93.9
8	0.80	78.3	1.00	121.1	1.87	455.7	2.35	743.7	1.29	205.8	0.90	98.1
9	0.79	76.5	0.98	116.2	1.84	440.2	2.26	685.0	1.27	199.1	0.90	98.1
10	0.77	73.0	1.02	126.1	1.80	419.9	2.19	633.3	1.25	192.5	0.90	98.1
11	0.75	69.6	1.00	121.1	1.75	395.2	2.12	596.6	1.23	186.1	0.99	118.6
12	0.75	69.6	1.02	126.1	1.71	371.1	2.08	592.7	1.20	176.6	0.98	116.2
13	0.77	73.0	1.03	128.6	1.62	334.9	1.98	515.3	1.17	167.5	0.97	113.8
14	0.79	76.5	1.05	133.8	1.56	308.8	1.92	482.3	1.15	161.6	0.96	111.5
15	0.77	73.0	1.12	152.9	1.47	271.9	1.83	435.1	1.12	152.9	0.94	106.9
16	0.72	64.7	1.13	155.7	1.38	237.6	1.79	411.9	1.10	147.3	0.93	104.6
17	0.70	61.7	1.10	147.3	1.32	216.1	1.72	380.8	1.08	141.8	0.90	98.1
18	0.67	57.3	1.08	141.8	1.27	199.1	1.63	339.3	1.06	136.4	0.80	78.3
19	0.63	51.9	1.05	133.8	1.23	186.1	1.58	317.4	1.04	131.2	0.77	73.0
20	0.61	49.4	1.05	133.8	1.20	176.6	1.53	296.2	1.02	126.1	0.77	73.0
21	0.60	48.2	1.06	136.4	1.26	195.8	1.63	339.3	1.00	121.1	0.75	69.6
22	0.61	49.4	1.30	209.2	1.20	176.6	1.60	326.0	0.98	116.2	0.74	67.9
23	0.63	51.9	1.36	230.3	1.20	176.6	1.58	317.4	0.95	101.2	0.73	66.3
24	0.58	45.9	1.33	219.6	1.30	209.2	1.56	308.8	0.92	102.4	0.71	63.2
25	0.56	43.8	1.32	216.1	1.42	252.5	1.56	308.8	0.89	96.0	0.69	60.2
26	0.62	50.7	1.32	216.1	1.50	283.9	1.56	308.8	0.95	109.2	0.68	58.7
27	0.67	57.3	1.29	205.8	1.58	317.4	1.58	317.4	0.95	109.2	0.70	61.7
28	0.66	55.9	1.40	245.0	1.68	362.0	1.58	317.4	0.92	102.4	0.70	61.7
29	0.70	61.7	1.44	260.2	1.80	419.9	1.56	308.8	0.91	100.2	0.70	61.7
30	0.75	69.6	1.50	238.9	1.90	471.6	1.52	292.1	0.90	98.1	0.70	61.7
31	0.77	73.0	1.42	252.5			1.47	271.9			0.70	61.7
TOTAL		1.841.7		4.897.4		10,043.9		14,468.7		4,845.7		2,621.6
DAYS		31		31		30		31		30		31
MEAN		59.4		158.0		334.8		466.7		161.5		84.6
MAX.												
MIN.												

NB. Water level in meters arbitrary zero.
Arbitrary zero is ______ meters above M. S. L.

NIPPON KOEI CO., LTD. TOKYO

WATER LEVEL AND DISCHARGE

STATION BAN BUR Year 1964

River system: MEKONG. Name of stream: SREPOK [illegible] Drainage area (km²): 8,650

	JAN.		FEB.		MAR.		APR.		MAY		JUNE	
	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)	W. L. (M)	DIS. (M³/S)
1	0.69	60.2	0.54	41.7	0.465	34.6	0.36	29.1	0.245	26.4	0.85	87.8
2	0.67	57.3	0.54	41.7	0.46	34.9	0.375	29.7	0.24	26.4	0.84	85.9
3	0.66	55.9	0.53	40.7	0.46	34.9	0.40	31.0	0.25	26.4	0.81	80.1
4	0.64	53.2	0.53	40.7	0.455	34.6	0.415	31.5	0.35	28.7	0.80	78.3
5	0.63	51.9	0.52	39.8	0.45	34.2	0.40	31.0	0.47	35.6	0.74	67.9
6	0.62	50.7	0.51	38.9	0.46	34.9	0.395	30.7	0.515	38.5	0.75	69.6
7	0.62	50.7	0.52	39.8	0.465	35.3	0.390	30.4	0.57	44.8	0.73	66.3
8	0.62	50.7	0.53	40.7	0.465	35.3	0.38	29.9	0.58	45.9	0.71	63.2
9	0.60	48.2	0.53	40.7	0.46	34.9	0.375	29.7	0.58	45.9	0.695	61.0
10	0.60	48.2	0.55	42.7	0.46	34.9	0.37	29.5	0.58	45.9	0.675	63.0
11	0.59	47.1	0.53	40.7	0.46	34.9	0.37	29.5	0.575	45.4	0.65	54.6
12	0.58	45.9	0.52	39.8	0.455	34.6	0.365	29.3	0.57	44.8	0.63	51.9
13	0.58	45.9	0.53	40.7	0.445	33.9	0.36	29.1	0.56	43.8	0.615	50.1
14	0.57	44.8	0.53	40.7	0.435	33.1	0.36	29.1	0.56	43.8	0.585	45.4
15	0.55	42.7	0.52	39.8	0.425	32.4	0.355	28.9	0.555	43.3	0.54	41.7
16	0.53	40.7	0.52	39.8	0.42	32.0	0.345	28.5	0.55	42.7	0.59	47.1
17	0.52	39.8	0.53	40.7	0.42	32.0	0.335	28.1	0.56	43.8	0.63	51.9
18	0.50	38.0	0.53	40.7	0.41	31.5	0.325	27.8	0.58	45.9	0.65	54.6
19	0.59	47.1	0.53	40.7	0.405	31.3	0.32	27.6	0.575	45.4	0.64	53.3
20	0.59	47.1	0.53	40.7	0.40	31.0	0.315	27.5	0.585	46.5	0.65	54.6
21	0.58	45.9	0.52	39.8	0.40	31.0	0.31	27.3	0.60	48.2	0.64	53.3
22	0.58	45.9	0.52	39.8	0.40	31.0	0.305	27.2	0.62	50.7	0.635	52.6
23	0.57	44.8	0.50	38.0	0.40	31.0	0.30	27.1	0.63	51.9	0.65	54.6
24	0.57	44.8	0.49	27.2	0.395	30.7	0.29	26.9	0.64	53.2	0.655	55.3
25	0.56	43.8	0.49	27.2	0.39	30.4	0.285	26.8	0.74	67.9	0.67	57.3
26	0.55	42.7	0.48	36.3	0.39	30.4	0.28	26.6	0.72	64.7	0.67	57.3
27	0.54	41.7	0.48	36.3	0.385	30.2	0.28	26.6	0.75	69.6	0.70	61.7
28	0.54	41.7	0.47	35.6	0.38	29.9	0.27	26.6	0.77	73.0	0.71	63.2
29	0.53	40.7	0.47	35.6	0.345	28.5	0.26	26.5	0.79	76.5	0.70	61.7
30	0.52	39.8			0.34	28.3	0.25	26.4	0.80	78.3	0.70	61.7
31	0.52	39.8			0.34	28.3			0.83	84.0		
TOTAL		1,437.7		1,127.5		1,004.9		855.9		1,527.9		1,817.0
DAYS		31		29		31		30		31		30
MEAN		46.4		38.9		32.4		28.5		49.3		60.5
MAX.						34.6		31.5		84.0		87.8
MIN.						28.3		26.4		26.4		41.7

NB: Water level in meters arbitrary zero.
Arbitrary zero is _____ meters above M.S.L.

NIPPON KOEI CO., LTD. TOKYO

HQD-2

WATER LEVEL AND DISCHARGE

STATION BAN BUR

River system. MEKONG Name of stream: SREPOK Drainage area (Km²): 8,650 Year 1964

	July		Aug		Sept		Oct		Nov		Dec		
	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q	
1	0.72	64.7	0.875	92.9	0.98	116.2	1.33	219.6			2.00	526.5	1
2	0.73	66.3	0.88	93.9	0.98	116.2	1.35	226.8			1.805	422.4	2
3	0.75	69.6	0.88	93.9	0.99	118.6	1.35	226.8			1.68	362.0	3
4	0.76	71.3	0.87	91.8	0.99	118.6	1.36	230.3			1.66	352.9	4
5	0.78	74.6	0.87	91.8	1.20	176.6	1.37	233.9			1.64	343.8	5
6	0.795	77.4	0.98	116.2	1.03	126.6	1.37	233.9			1.65	346.4	6
7	0.805	79.2	1.20	176.6	1.02	126.1	1.365	232.1			1.64	343.8	7
8	0.80	78.3	1.30	209.2	1.00	121.1	1.36	230.3			1.625	337.1	8
9	0.79	76.5	1.28	202.4	1.00	121.1	1.35	226.8			1.61	330.4	9
10	0.77	73.0	1.26	195.8	0.98	116.2	1.345	225.0			1.59	321.7	10
11	0.75	69.6	1.23	186.1	0.96	111.5	1.34	223.1			1.58	317.4	11
12	0.72	64.7	1.215	181.3	0.94	106.9	1.33	219.6			1.73	385.6	12
13	0.75	69.6	1.205	178.2	0.92	102.4	1.32	216.1			2.05	555.1	13
14	0.77	73.0	1.20	176.6	0.89	96.0	1.31	212.6			2.08	592.7	14
15	0.77	73.0	1.20	176.6	0.87	91.8	1.305	210.9			2.05	555.1	15
16	0.76	71.3	1.21	179.7	0.87	91.8	1.30	209.2			2.03	543.6	16
17	0.78	74.6	1.22	182.8	0.86	89.8	1.30	176.6			2.00	526.5	17
18	0.79	76.5	1.205	178.2	0.86	89.8	1.19	173.5			2.00	526.5	18
19	0.80	78.8	1.1	147.3	0.86	89.8	1.18	169.4			1.98	515.3	19
20	0.80	78.3	1.0	121.1	0.87	91.8	1.17	167.5			1.93	487.7	20
21	0.82	81.9	0.985	117.4	0.88	93.9	1.155	163.1			1.90	471.6	21
22	0.875	92.9	0.98	116.2	0.895	95.0	1.15	161.6			1.82	420.9	22
23	0.86	89.8	0.97	113.8	0.93	104.6	1.14	158.7			1.80	419.9	23
24	0.87	91.8	0.965	112.7	0.99	118.6	1.13	155.7			1.765	402.6	24
25	0.87	91.8	0.96	111.5	1.40	245.0	1.13	155.7			1.76	400.2	25
26	0.865	90.8	0.99	118.6	1.45	264.0	1.15	161.6			1.75	395.2	26
27	0.86	89.8	1.03	128.6	1.43	256.3	1.145	160.2			1.73	385.6	27
28	0.87	91.8	1.05	133.8	1.38	237.6	1.135	157.2			1.72	371.1	28
29	0.87	91.8	1.00	121.1	1.31	212.6	1.12	152.9			1.70	371.4	29
30	0.865	90.8	1.00	121.1	1.29	205.8	1.12	152.9			1.685	364.3	30
31	0.865	90.8	0.99	118.6			1.125	154.3			1.68	362.0	31
MAX		92.9		209.2		264.0		233.9				592.7	MAX
MIN		64.7		91.8		89.8		152.9				317.4	MIN
TOTAL		2,435.8		4,365.5		4,054.3		5,096.9				13,068.3	TOTAL
DAYS													DAYS
MEAN		79.1		141.5		135.1		193.4				421.5	MEAN

H : Gauge height in _____, Q : Discharge in _____ N.K.Form №1202

Zero point of water gauge : El. _____

WATER LEVEL AND DISCHARGE

STATION BAN BUR

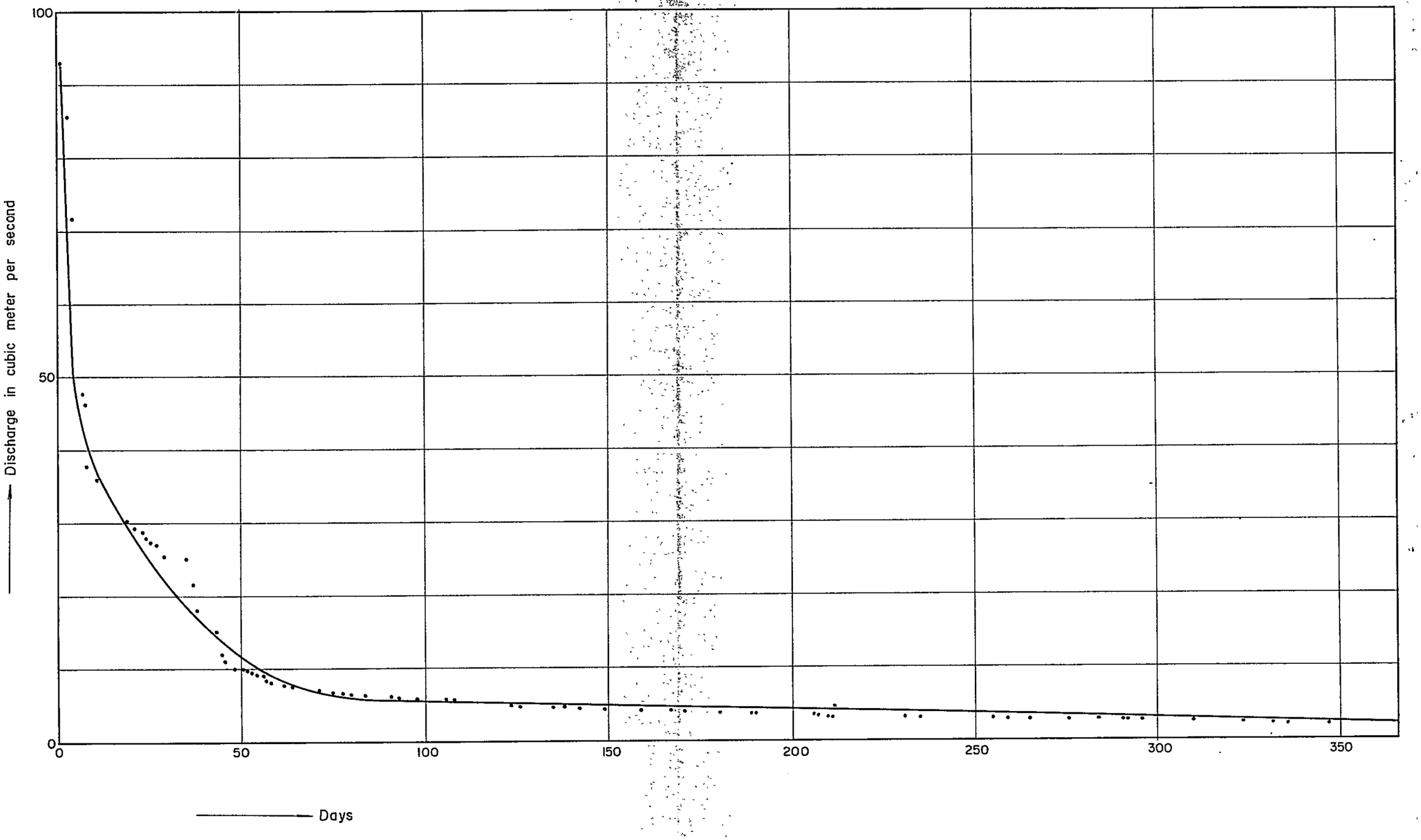
River system: MEKONG Name of stream: SREPOK Drainage area (Km²): 8,650 Year 1965

	Jan		Feb		Mar		Apr		May		June		
	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q	
1	1.66	352.9	0.69	60.2	0.60	48.2	0.50	38.0					1
2	1.62	334.9	0.685	59.5	0.595	47.7	0.59	47.1					2
3	1.57	313.1	0.68	58.7	0.595	47.7	0.585	46.5					3
4	1.51	288.0	0.675	58.0	0.595	47.7	0.585	46.5					4
5	1.47	271.9	0.675	58.0	0.595	47.7	0.585	46.5					5
6	1.40	245.0	0.67	57.3	0.593	47.5	0.58	45.9					6
7	1.365	232.1	0.67	57.3	0.593	47.5	0.59	47.1					7
8	1.32	216.1	0.665	56.5	0.59	47.1							8
9	1.28	202.4	0.66	55.9	0.59	47.1							9
10	1.23	186.1	0.66	55.9	0.59	47.1							10
11	1.19	173.5	0.66	55.9	0.592	47.4							11
12	1.12	152.9	0.655	55.3	0.59	47.1							12
13	1.09	144.5	0.65	54.6	0.59	47.1							13
14	1.00	121.1	0.65	54.6	0.59	47.1							14
15	0.95	101.2	0.64	53.3	0.59	47.1							15
16	0.91	100.2	0.64	53.3	0.585	46.5							16
17	0.855	88.8	0.635	52.6	0.585	46.5							17
18	0.81	80.1	0.635	52.6	0.585	46.5							18
19	0.795	77.4	0.63	51.9	0.58	45.9							19
20	0.79	76.5	0.63	51.9	0.58	45.9							20
21	0.78	74.6	0.63	51.9	0.575	45.4							21
22	0.765	72.0	0.63	51.9	0.57	44.8							22
23	0.755	70.5	0.62	50.7	0.57	44.8							23
24	0.74	67.9	0.62	50.7	0.565	44.3							24
25	0.73	66.3	0.615	50.1	0.565	44.3							25
26	0.72	64.7	0.615	50.1	0.56	43.8							26
27	0.71	63.2	0.60	48.2	0.56	43.8							27
28	0.70	61.7	0.60	48.2	0.55	42.7							28
29	0.695	61.0			0.55	42.7							29
30	0.69	60.2			0.55	42.7							30
31	0.69	60.2			0.55	42.7							31
MAX		352.9		60.2		48.2							MAX
MIN		60.2		48.2		42.7							MIN
TOTAL		4,481.0		1,515.9		1,424.4							TOTAL
DAYS													DAYS
MEAN		144.5		54.1		45.95							MEAN

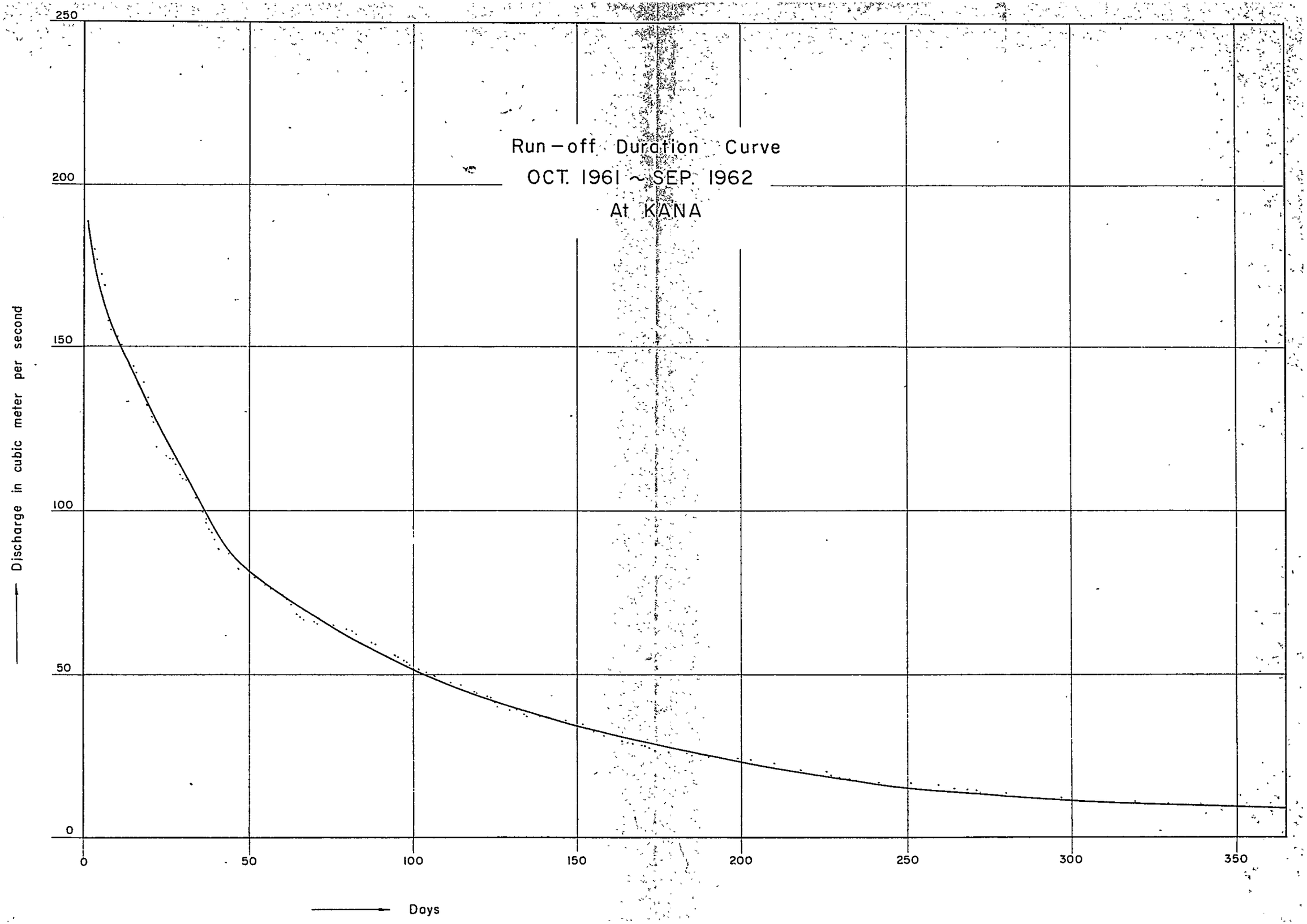
H: Gauge height in _____, Q: Discharge in _____.

Zero point of water gauge: El. _____

Run-off Duration Curve
Aug. 1963 ~ Jul. 1964
At KRONG BUK



Run-off Duration Curve
OCT. 1961 ~ SEP. 1962
At KANA



Run-off Duration Curve
Nov. 1962 ~ OCT. 1963
at KANA

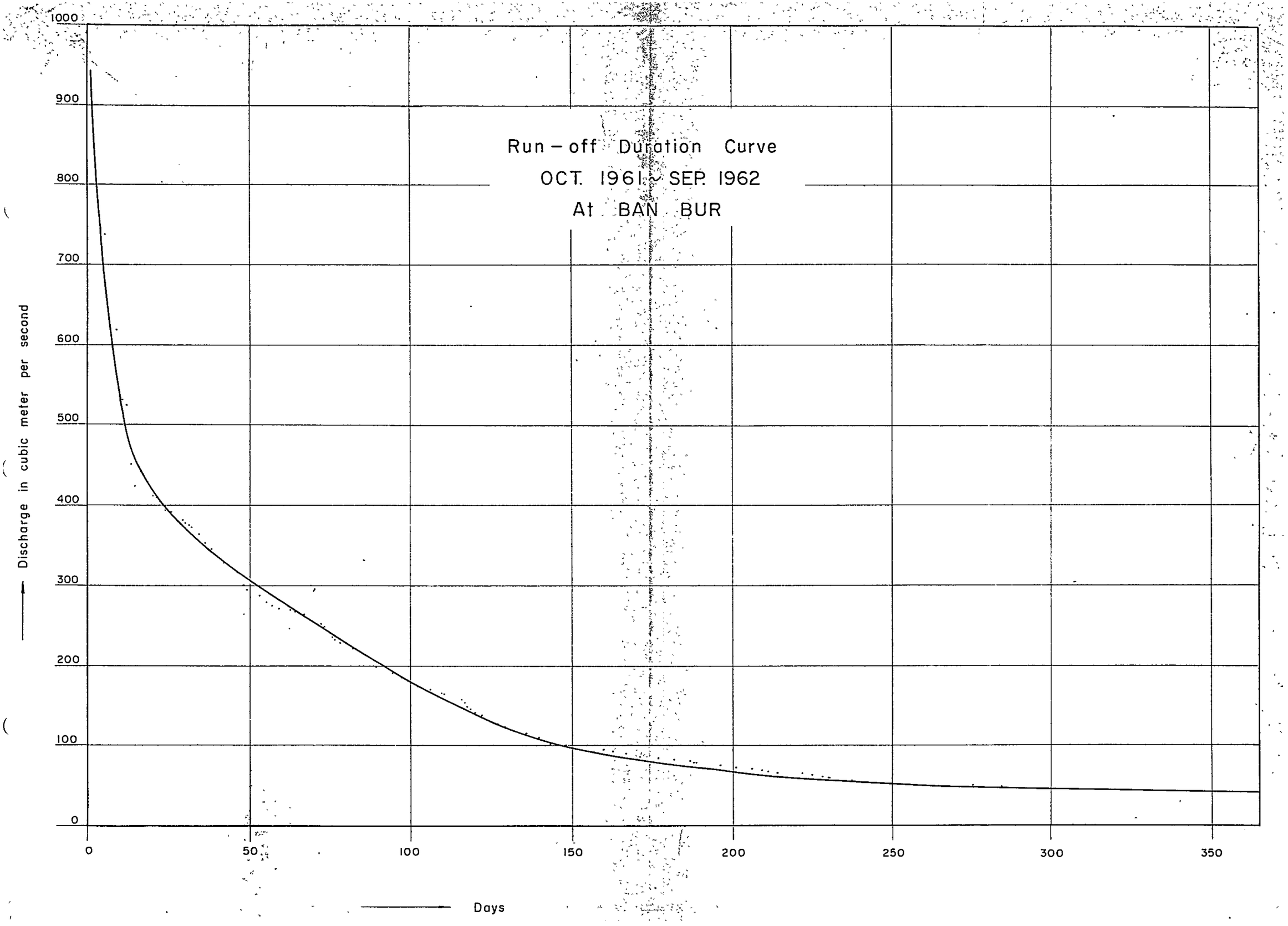
Discharge in cubic meter per second

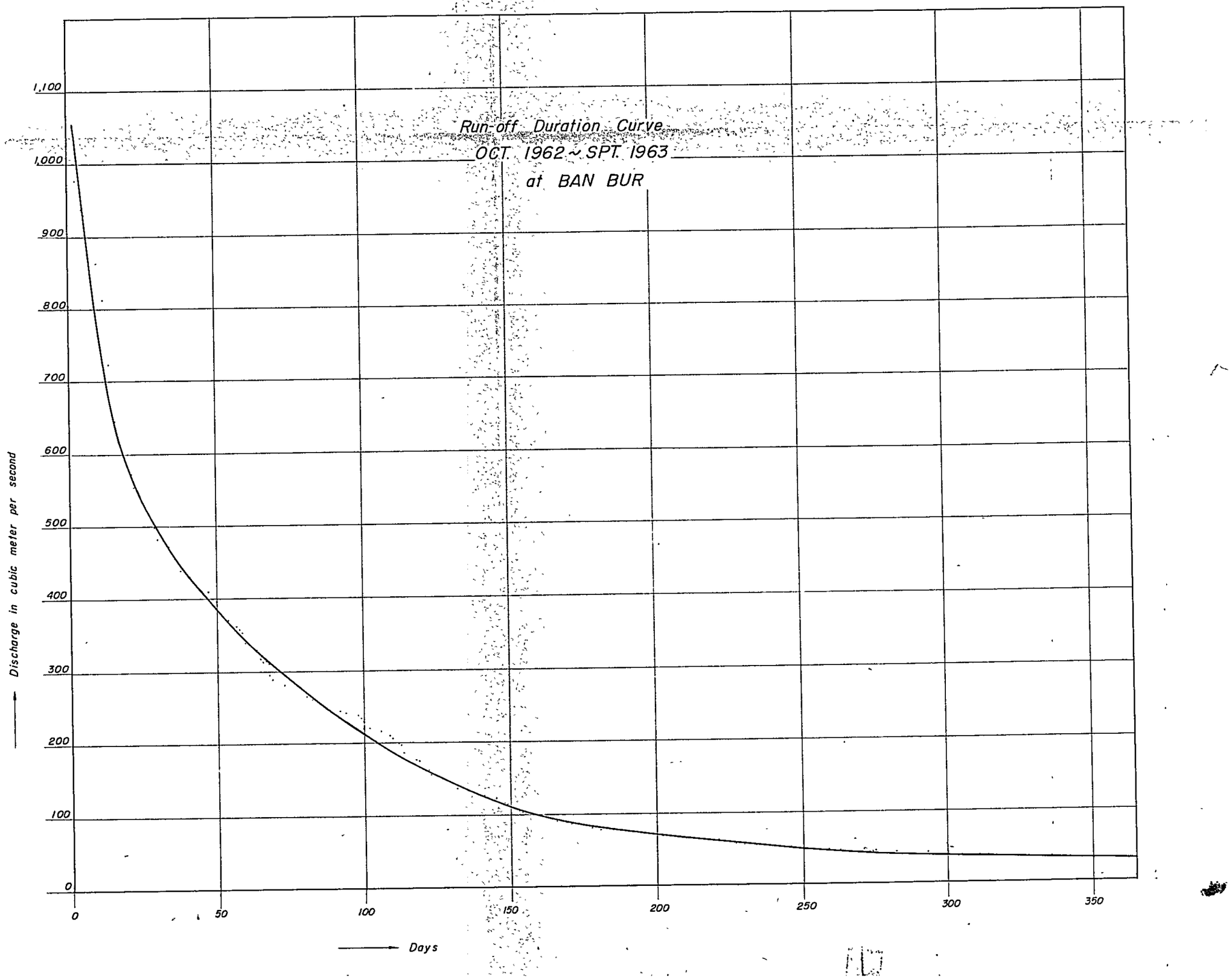
400
300
200
100
0

50
100
150
200
250
300
350

Days

Run – off Duration Curve
OCT. 1961 – SEP. 1962
At BAN BUR




Run-off Duration Curve
OCT. 1962 ~ SPT. 1963
at BAN BUR
Discharge in cubic meter per second
1,100
1,000
900
800
700
600
500
400
300
200
100
0
0
50
100
150
200
250
300
350
Days

Run off. Duration. Curve
Oct. 1962 ~ Sep. 1963
At Ban. Bur.

Dischage in cubic meter per second

1,000
900
800
700
600
500
400
300
200
100
0

0
50
100
150
200
250
300
350

Days

Run-off Duration Curve
Oct. 1963 ~ Sep. 1964
At Ban Bur

Discharge in cubic meter per second

1,000
900
800
700
600
500
400
300
200
100
0

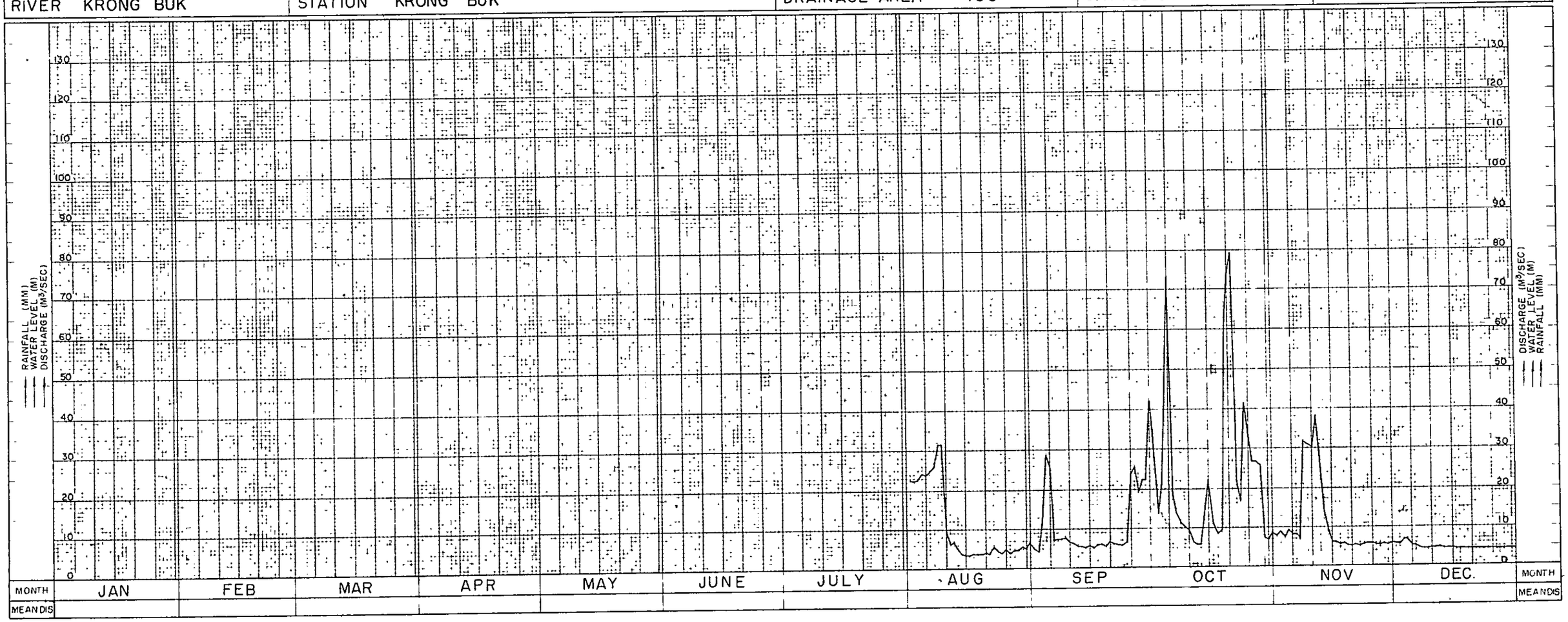
0
50
100
150
200
250
300
350

Days

HYDROGRAPHS

NO. _____ YEAR: 1963

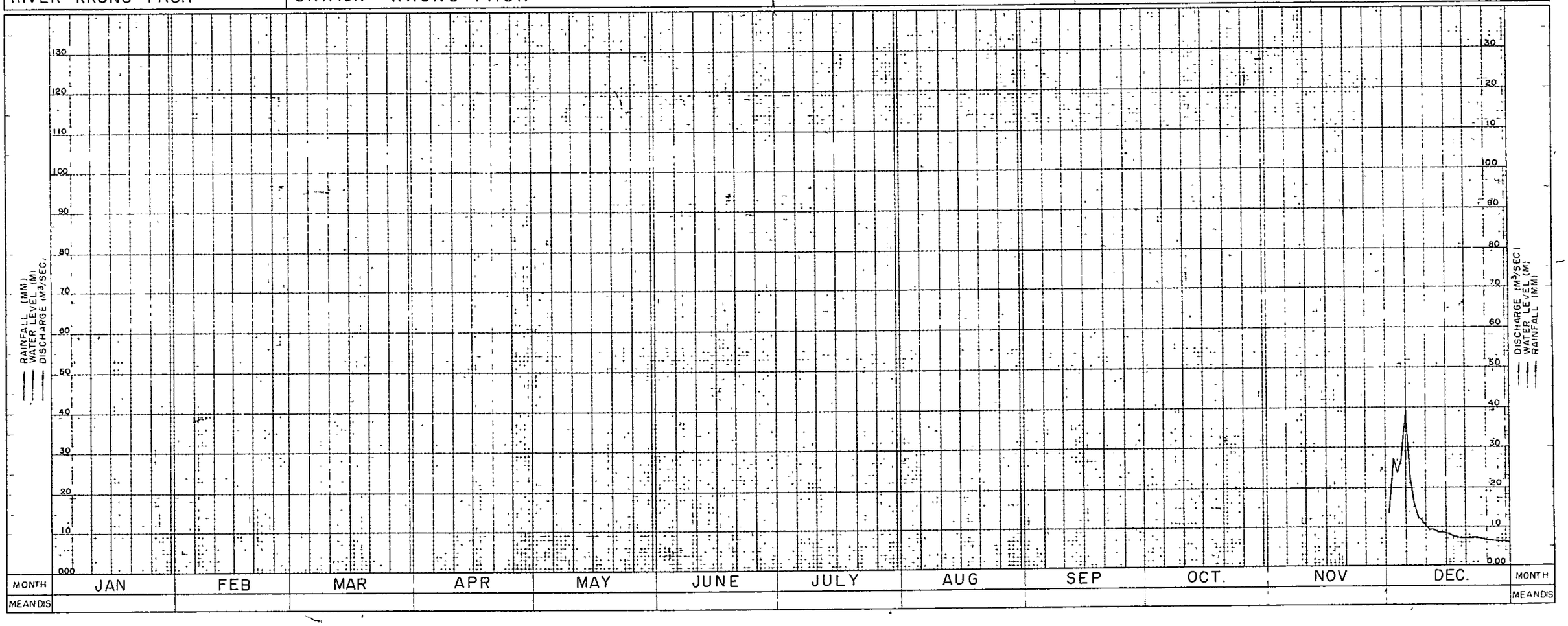
RIVER KRONG BUK	STATION KRONG BUK	DRAINAGE AREA 460 KM^2	GAUGED BY	DRAWN BY



HYDROGRAPHS

NO. YEAR : 1963

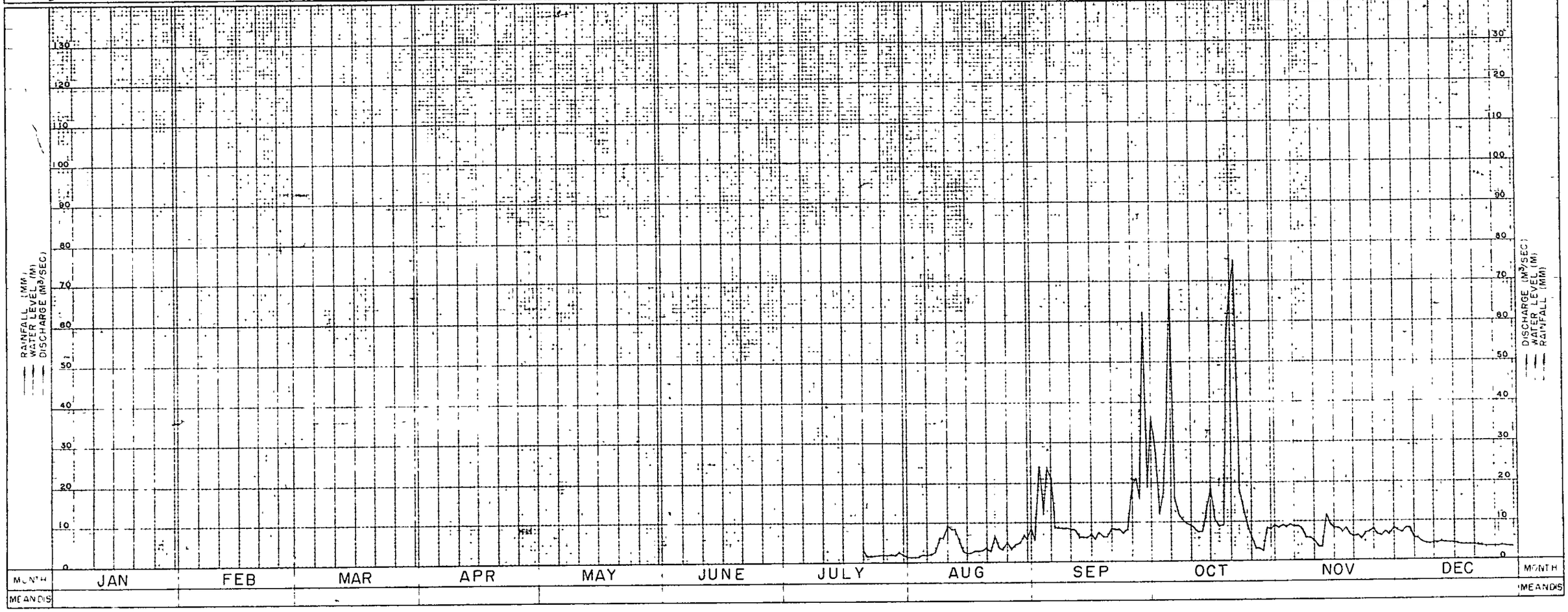
RIVER KRONG PACH	STATION KRONG PACH	DRAINAGE AREA 490 km²	GAUGED BY	DRAWN BY



HYDROGRAPHS

NO. YEAR : 1963

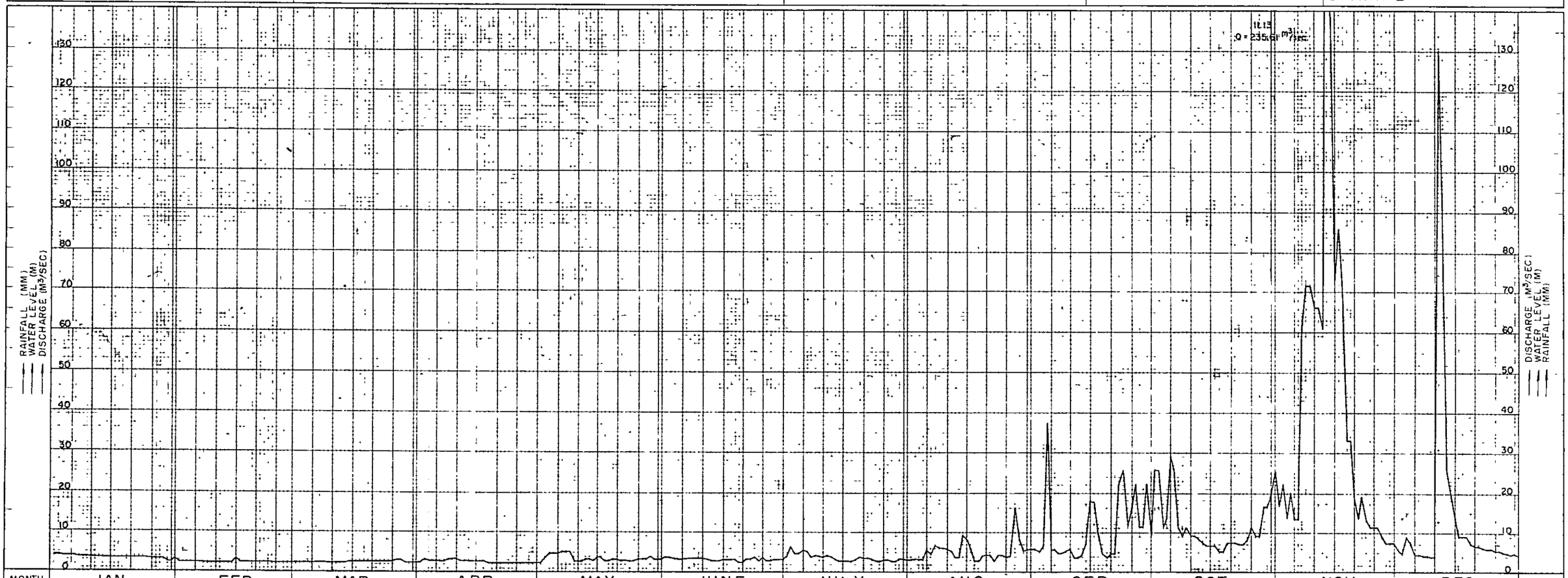
RIVER : KRONG BUK	STATION KRONG BUK	DRAINAGE AREA 460 km²	GAUGED BY	DRAWN BY



HYDROGRAPHS

NO. _____ YEAR : 1964

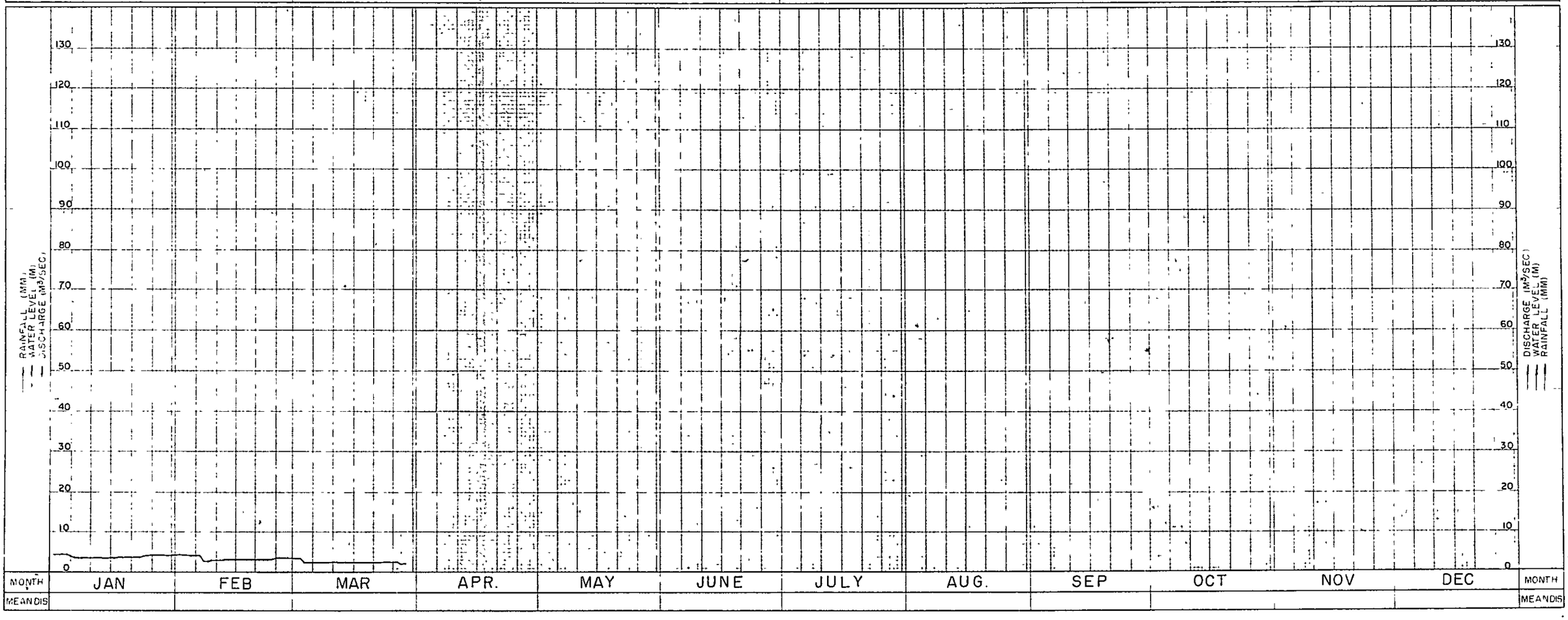
RIVER KRONG BUK	STATION KRONG BUK	DRAINAGE AREA 460 KM²	GAUGED BY	DRAWN BY



HYDROGRAPHS

NO. _____ YEAR 1965

RIVER KRONG BUK	STATION KRONG BUK	DRAINAGE AREA 460 KM^2	GAUGED BY	DRAWN BY

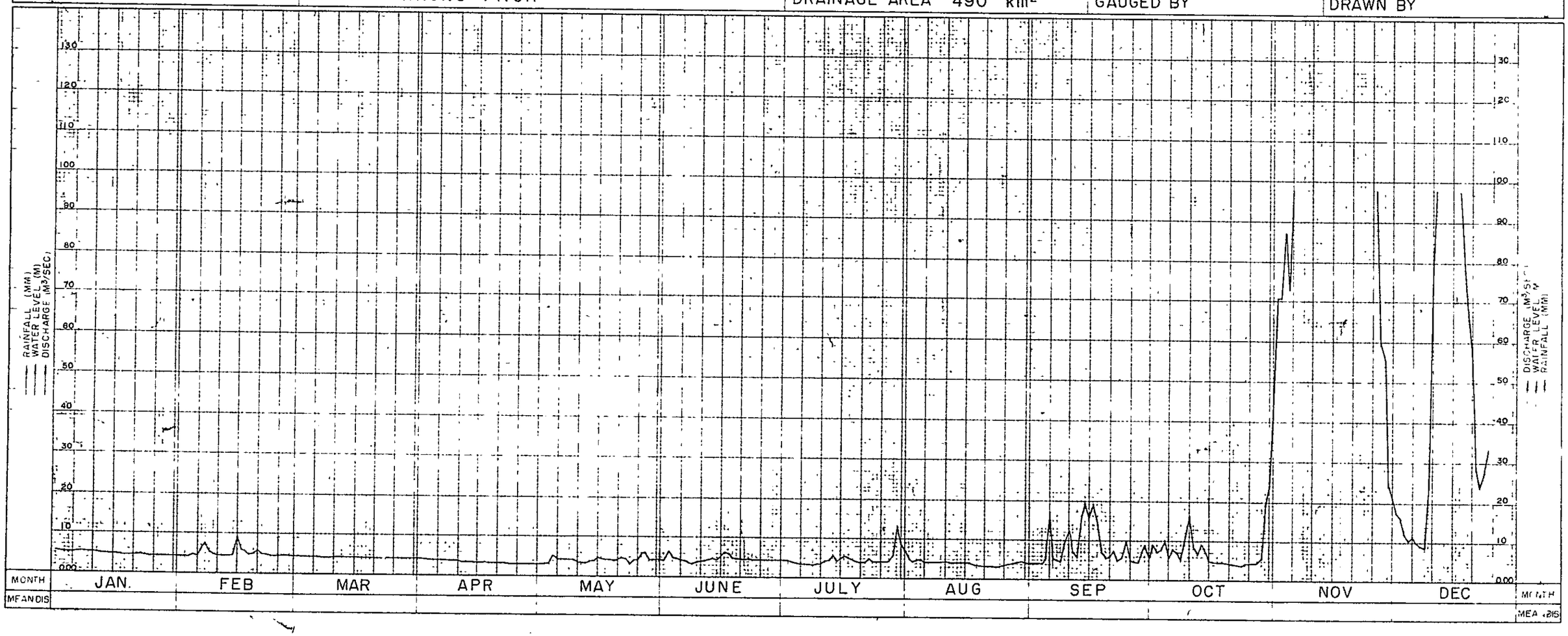


MONTH	JAN	FEB	MAR	APR.	MAY	JUNE	JULY	AUG.	SEP	OCT	NOV	DEC	MONTH
MEANDIS													MEANDIS

HYDROGRAPHS

NO. YEAR : 1964

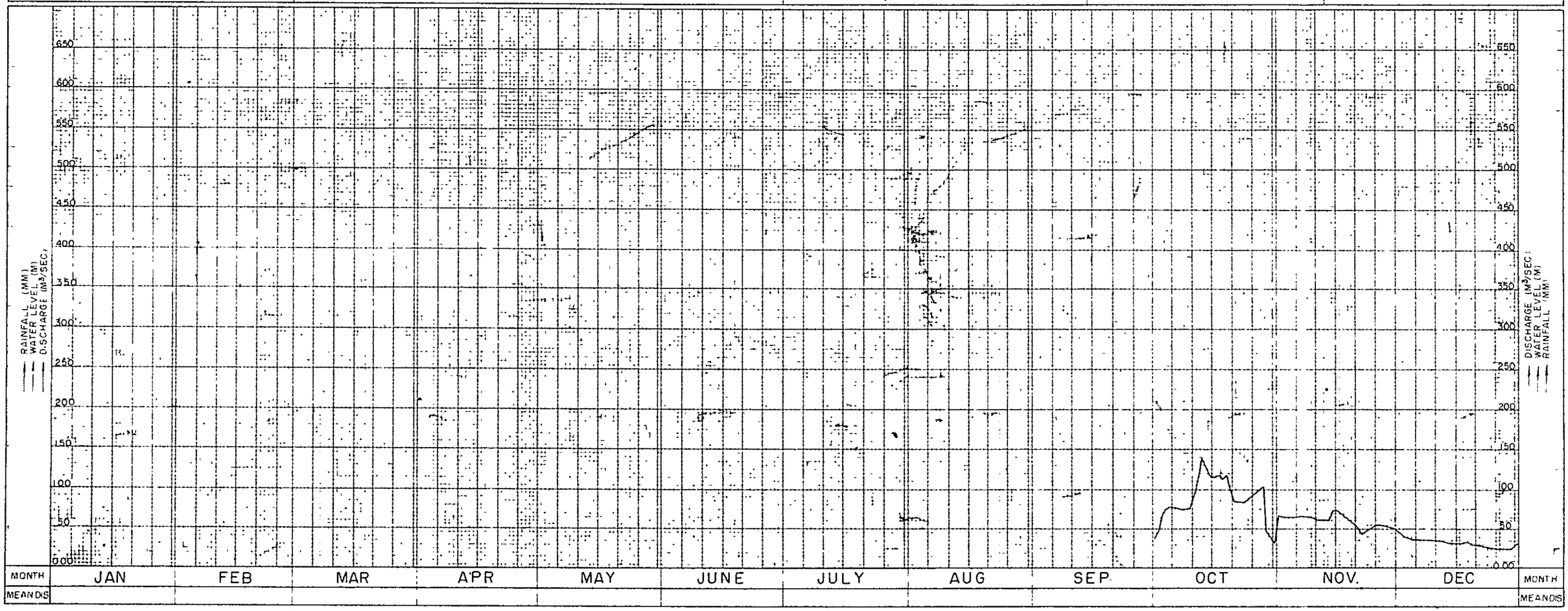
RIVER KRONG PACH	STATION KRONG PACH	DRAINAGE AREA 490 km²	GAUGED BY	DRAWN BY



HYDROGRAPHS

NO. _____ YEAR: 1961

RIVER KRONG ANA	STATION KANA	DRAINAGE AREA 3,210 KM²	GAUGED BY	DRAWN BY

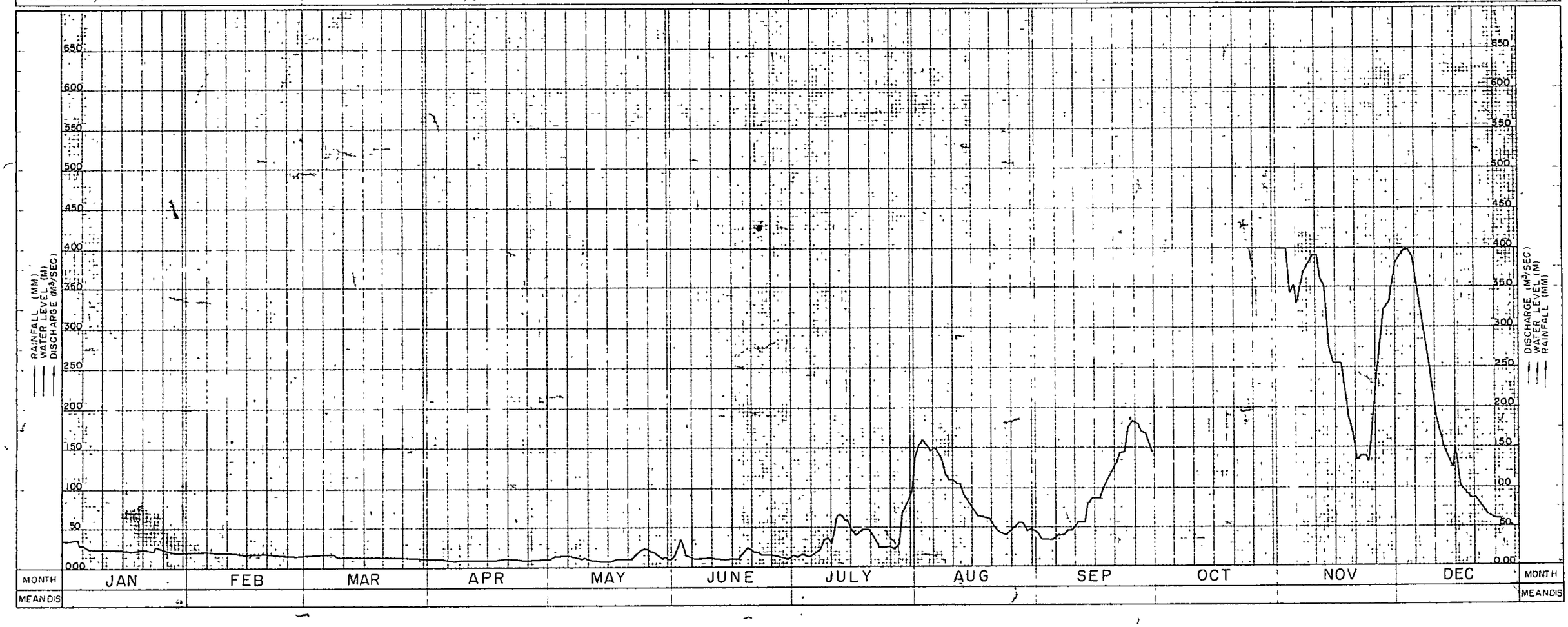


MONTH	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV.	DEC	MONTH
MEANDIS													MEANDIS

HYDROGRAPHS

NO. YEAR : 1962

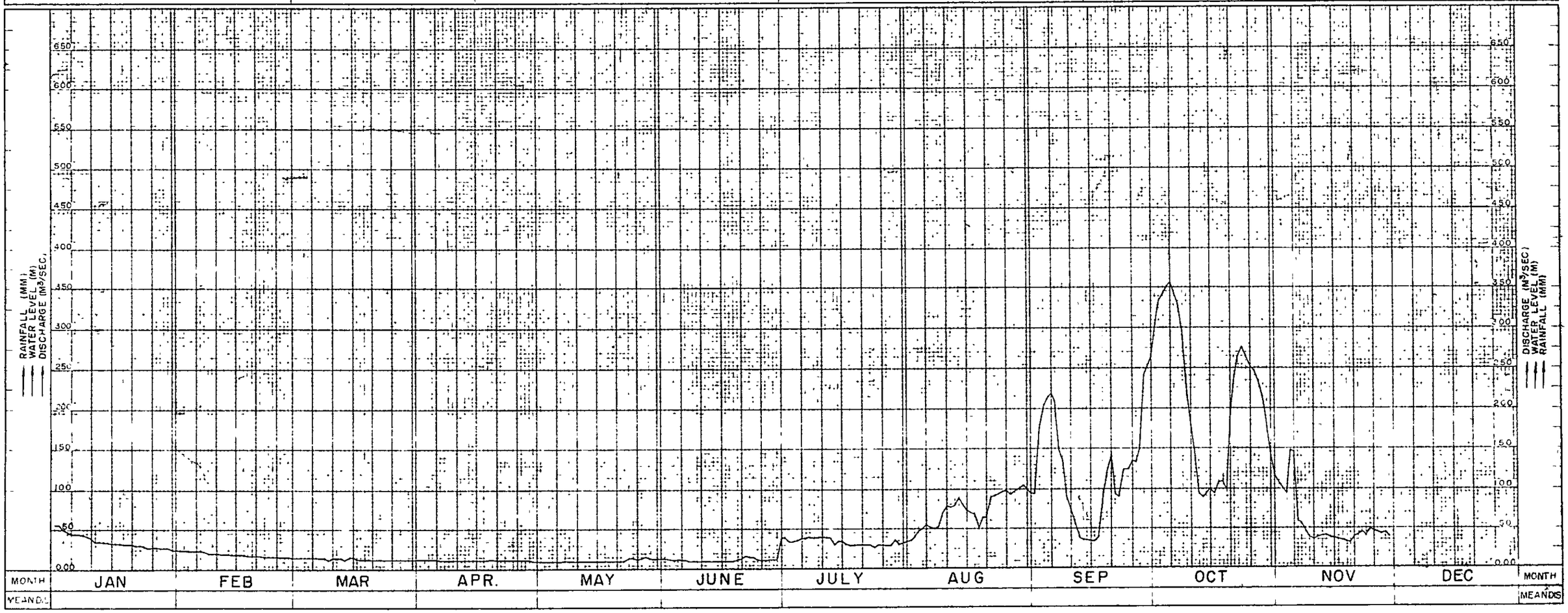
RIVER KRONG ANA	STATION. KANA	DRAINAGE AREA 3,210 KM²	GAUGED BY	DRAWN BY



HYDROGRAPHS

NO. _____ YEAR: 1963

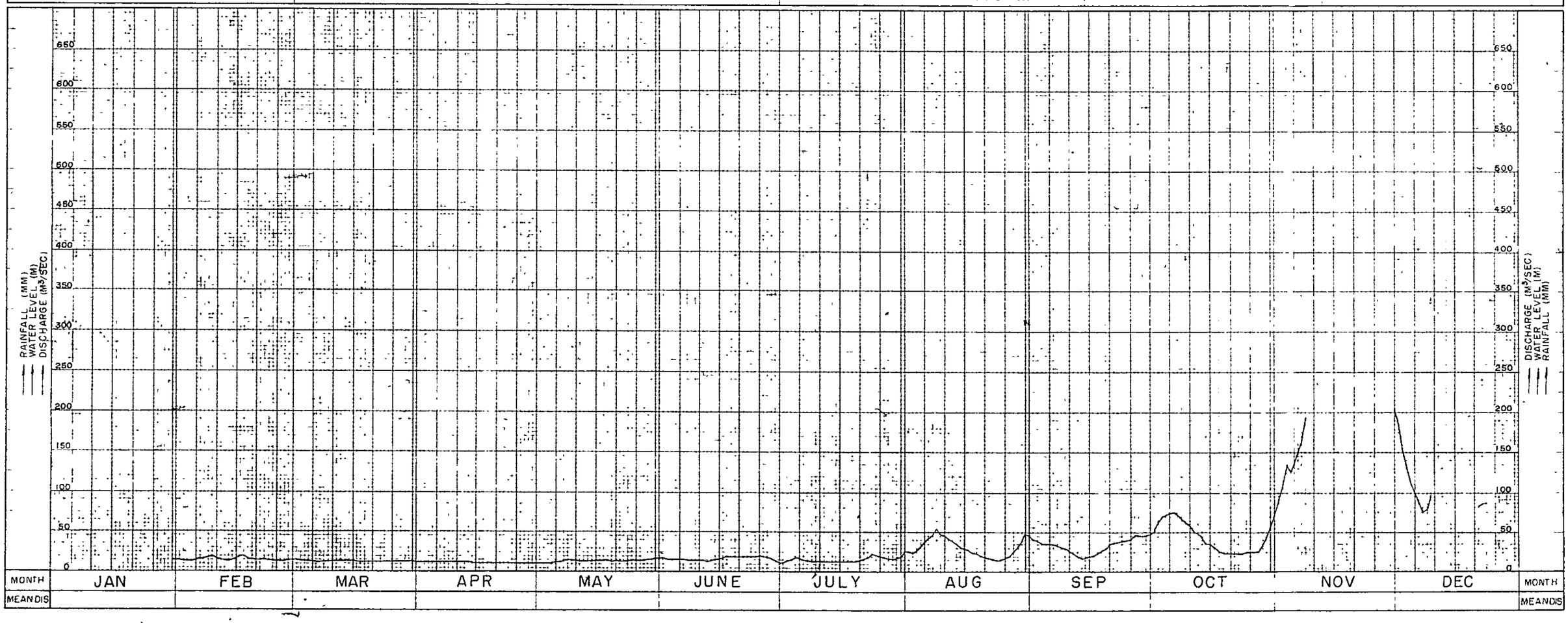
RIVER KRONG ANA	STATION KANA	DRAINAGE AREA 3 210 km²	GAUGED BY	DRAWN BY



HYDROGRAPHS

NO. YEAR : 1964

RIVER KRONG ANA	STATION KA.NA	DRAINAGE AREA 3 210 km²	GAUGED BY	DRAWN BY

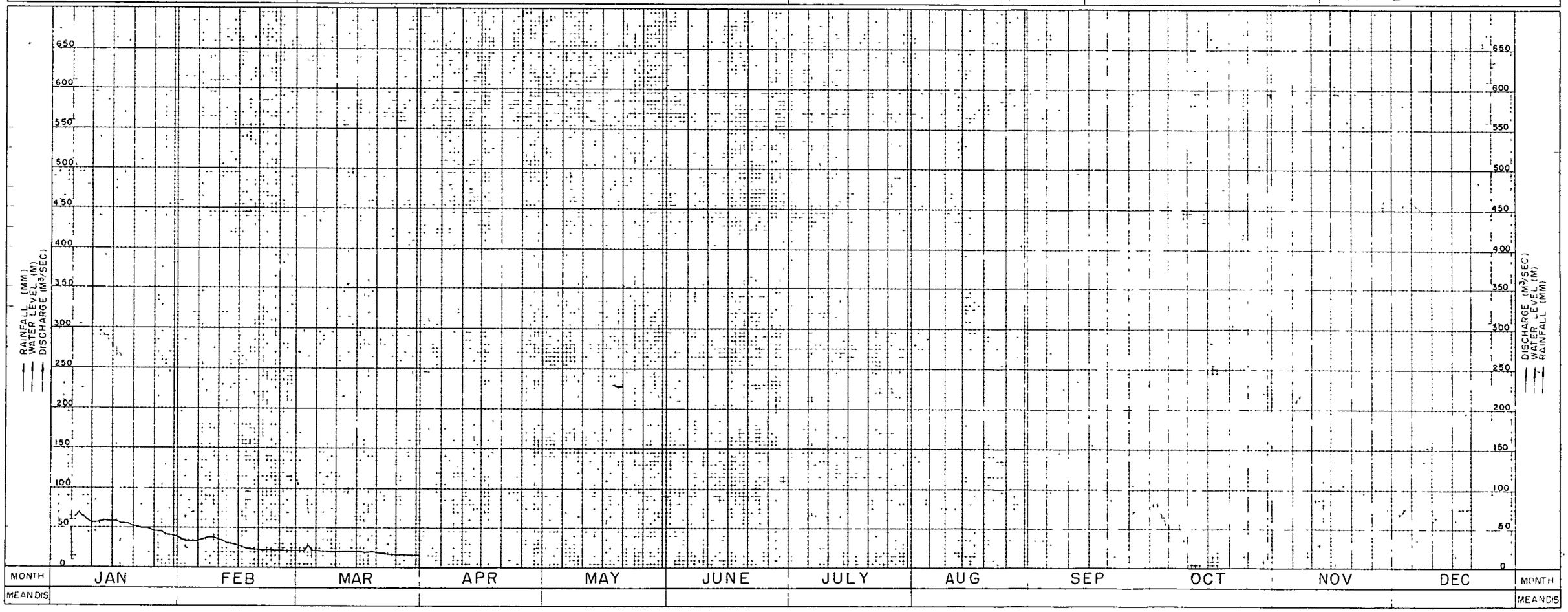


MONTH	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	MONTH
MEANDIS													MEANDIS

HYDROGRAPHS

NO. _____ YEAR : 1965

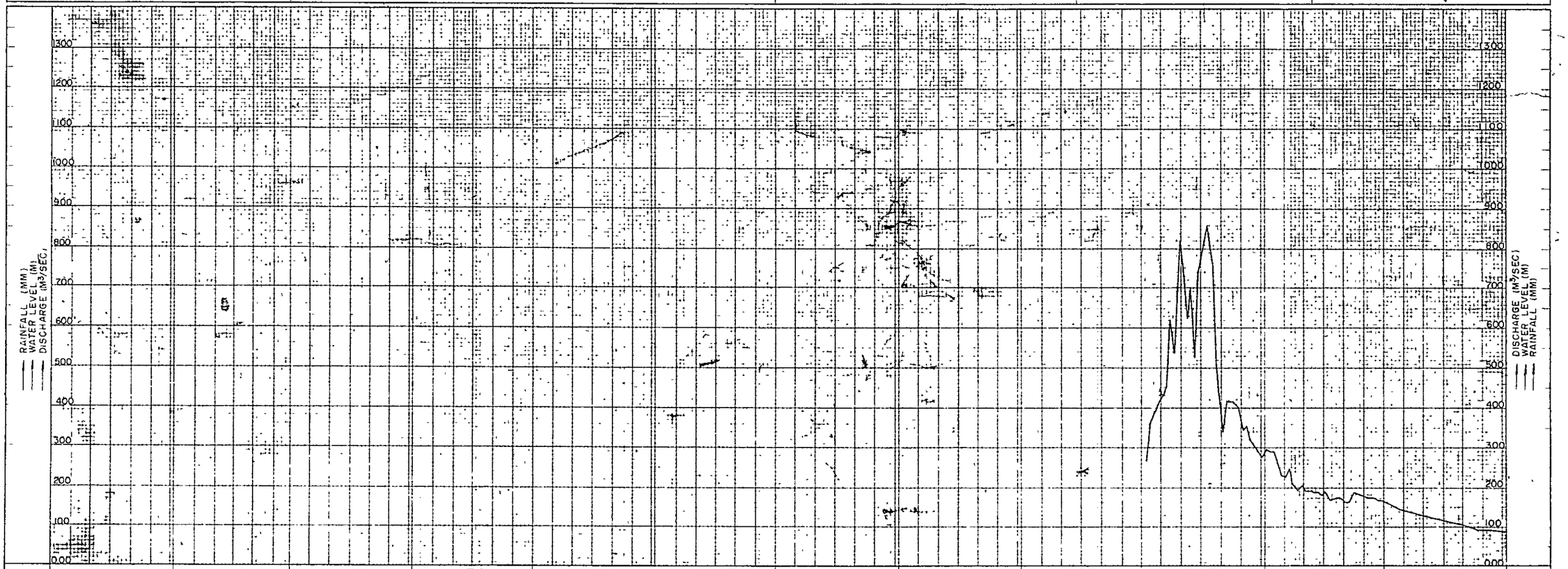
RIVER KRONG ANA	STATION KANA	DRAINAGE AREA 3 210 km²	GAUGED BY	DRAWN BY



HYDROGRAPHS

NO. _____ YEAR: 1961

RIVER SREPOK	STATION BAN BUR	DRAINAGE AREA 8,650 KM²	GAUGED BY	DRAWN BY

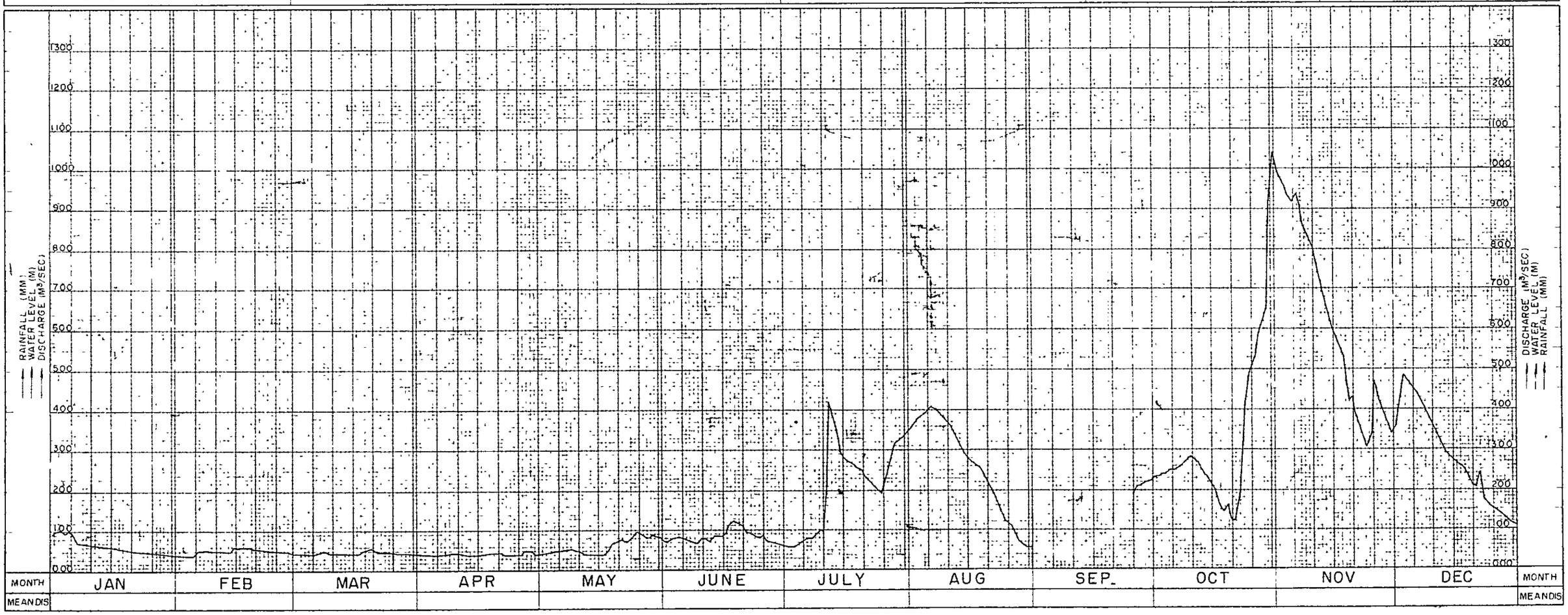


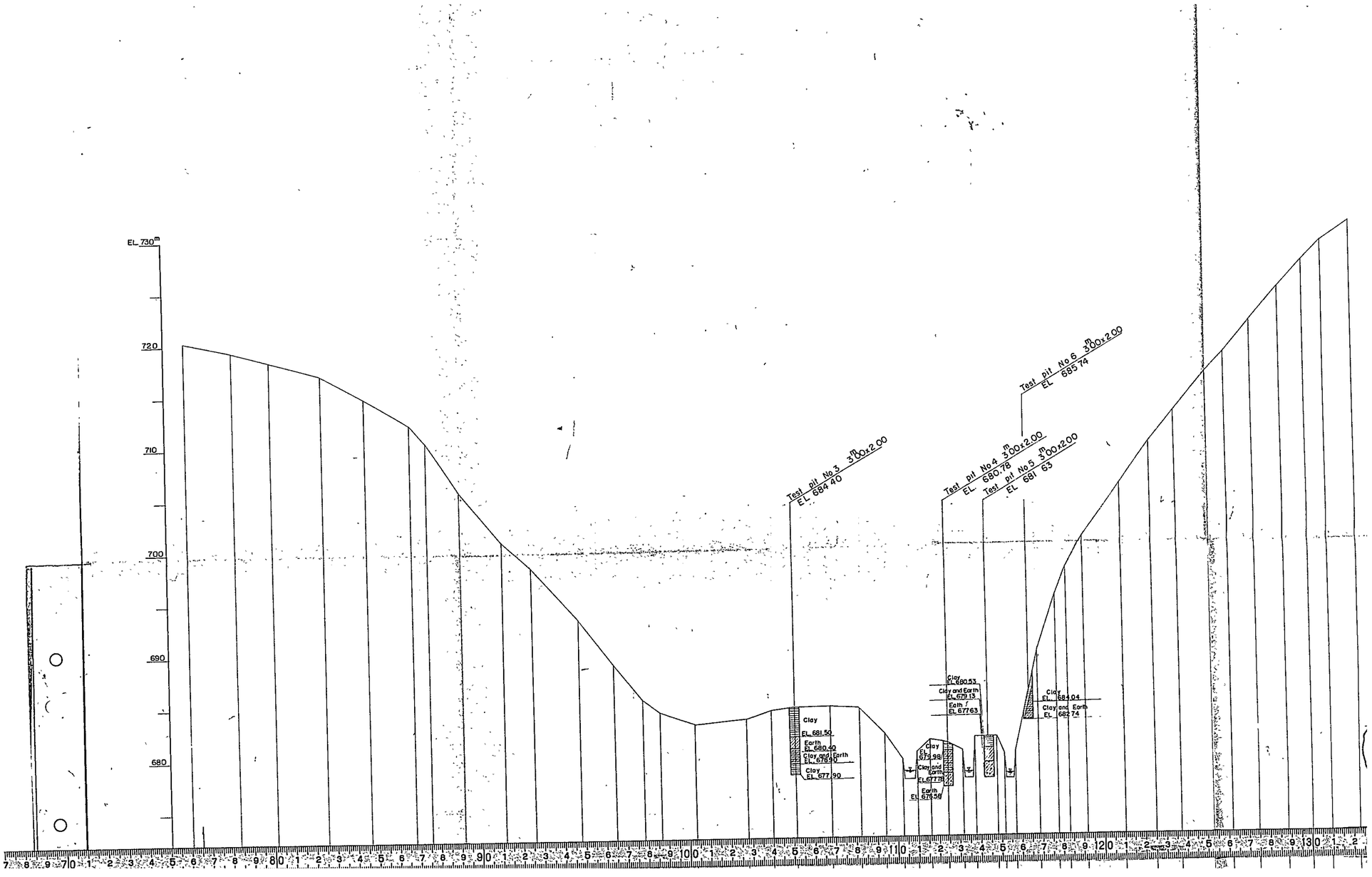
HYDROGRAPHS

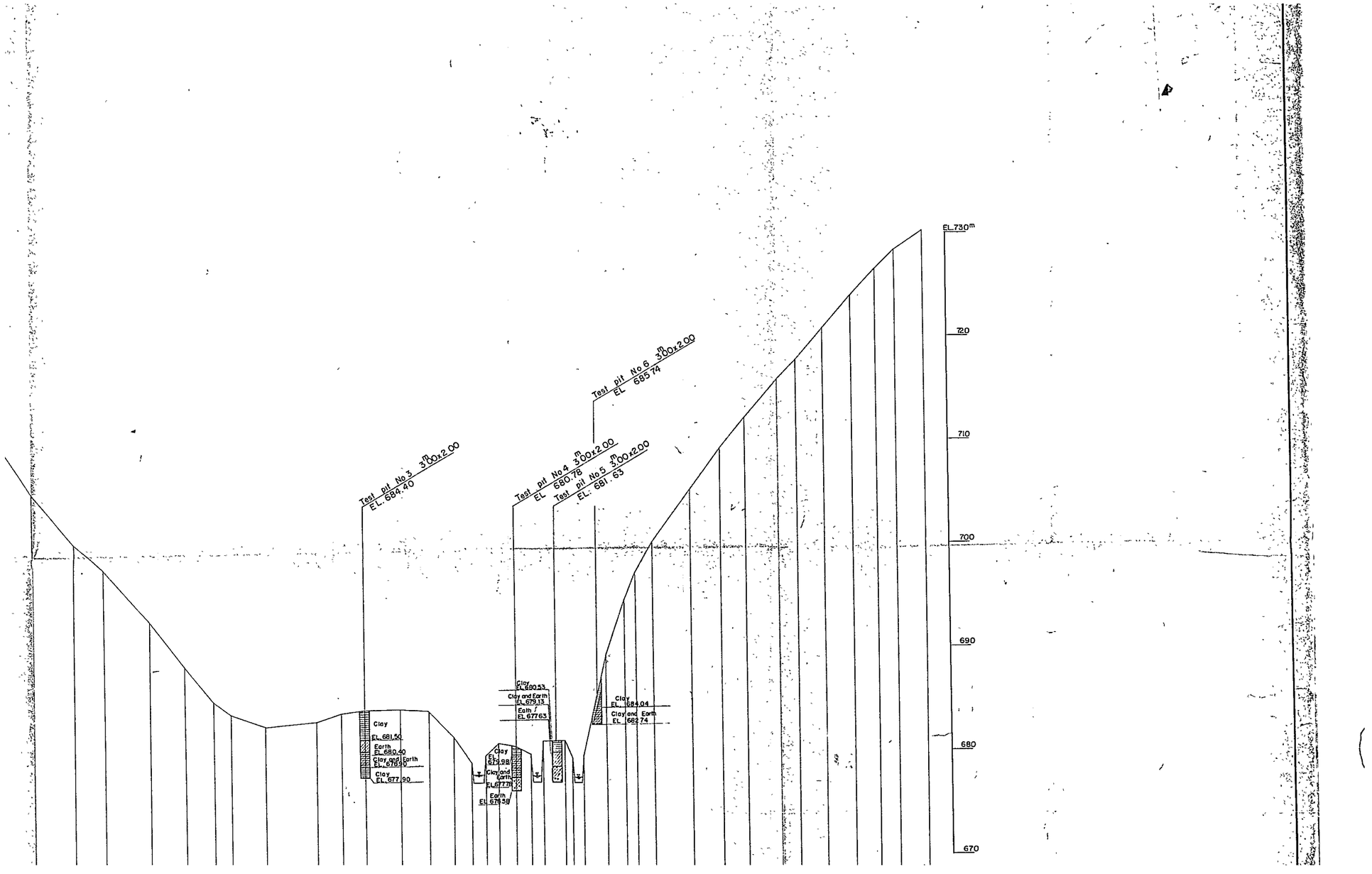
NO

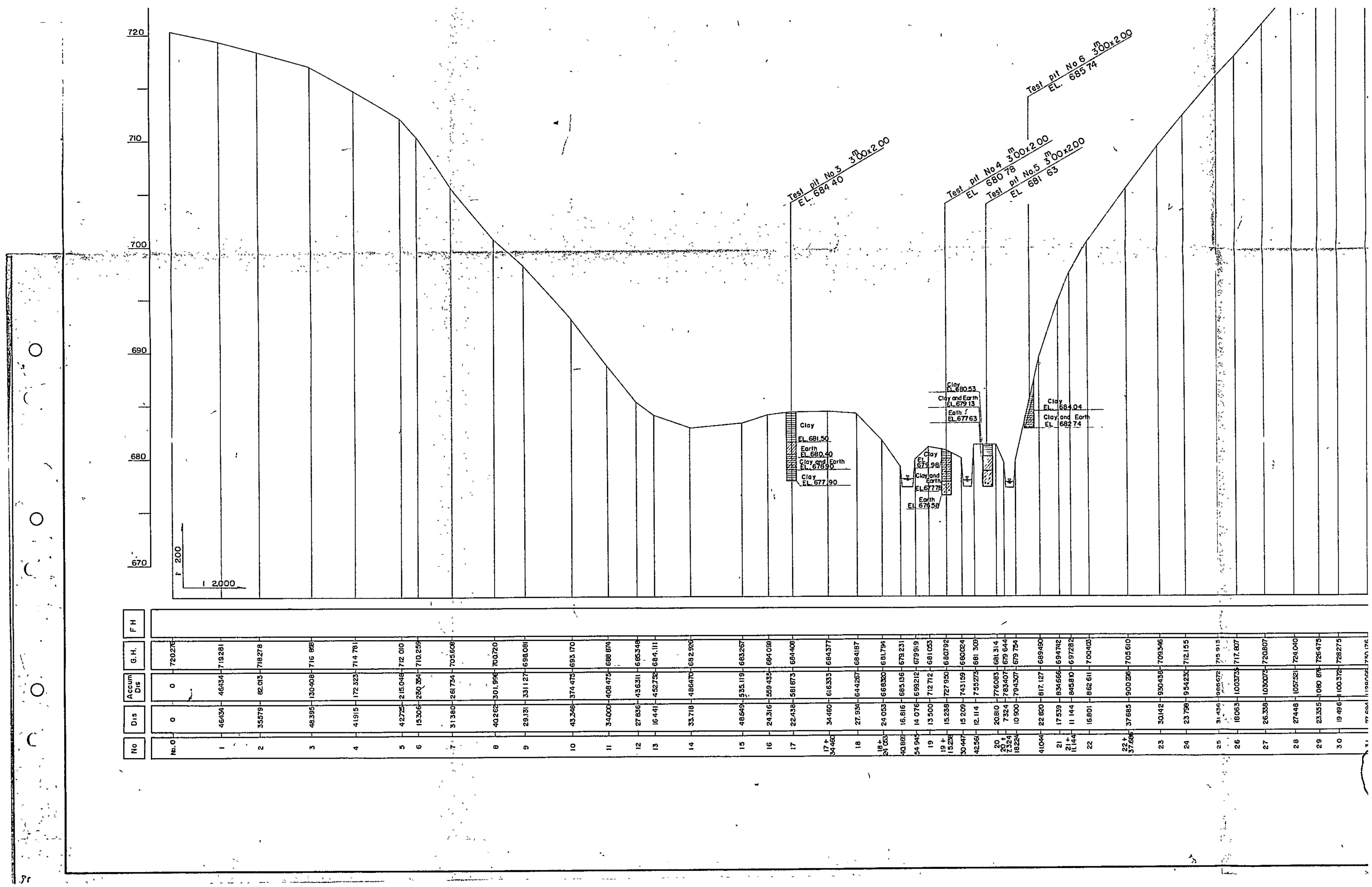
YEAR : 1962

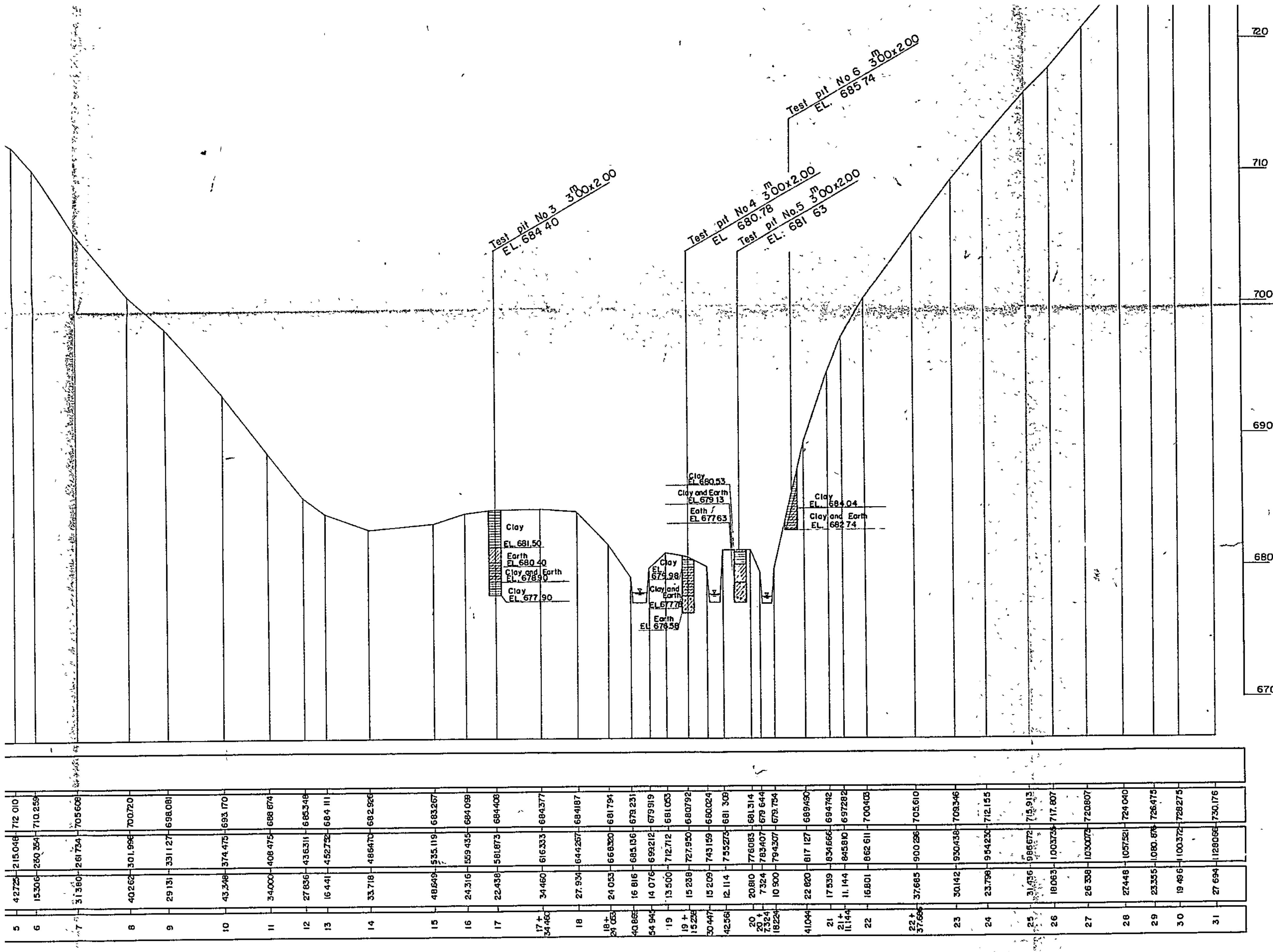
RIVER SREPOK	STATION BAN BUR	DRAINAGE AREA 8,650 KM²	GAUGED BY	DRAWN BY




EL. 730m
720
710
700
690
680
Test pit No 3 3.00x2.00
EL. 684 40
Test pit No 4 3.00x2.00
EL. 680.78
Test pit No 5 3.00x2.00
EL. 681 63
Test pit No 6 3.00x2.00
EL. 685 74
Clay
EL. 681.50
Earth
EL. 680.40
Clay and Earth
EL. 678.90
Clay
EL. 677.90
Clay
EL. 680.53
Clay and Earth
EL. 679.13
Earth
EL. 677.63
Clay
EL. 675.98
Clay and Earth
EL. 677.18
Earth
EL. 676.38
Clay
EL. 684.04
Clay and Earth
EL. 682.74


EL.730m
720
710
700
690
680
670
Test pit No.6 3.00x2.00
EL 685.74
Test pit No.3 3.00x2.00
EL. 684.40
Test pit No.4 3.00x2.00
EL 680.78
Test pit No.5 3.00x2.00
EL. 681.63
Clay
EL. 681.50
Earth
EL. 680.40
Clay and Earth
EL. 678.90
Clay
EL. 677.90
Clay
EL. 680.53
Clay and Earth
EL. 679.13
Earth
EL. 67763
Clay
EL. 679.98
Clay and Earth
EL. 677.78
Earth
EL. 679.58
Clay
EL. 684.04
Clay and Earth
EL. 682.74


720
710
700
690
680
670
200
1 2,000
Test pit No.3 3.00x2.00 m
EL. 684.40
Clay
EL. 681.50
Earth
EL. 680.40
Clay and Earth
EL. 678.90
Clay
EL. 677.90
Test pit No.4 3.00x2.00 m
EL. 680.78
Test pit No.5 3.00x2.00 m
EL. 681.63
Test pit No.6 3.00x2.00 m
EL. 685.74
Clay
EL. 680.53
Clay and Earth
EL. 679.13
Earth
EL. 677.63
Clay
EL. 684.04
Clay and Earth
EL. 682.74
F H
G. H.
Accum Dis
Dis
No



OVERSEAS TECHNICAL COOPERATION AGENCY

TOKYO JAPAN

KRONG BUK PROJECT, UPPER SREPOK VIET-NAM

GEOLOGICAL SECTION OF UPPER KRONG BUK DAM SITE

NIPPON KOEI CO., LTD. TOKYO

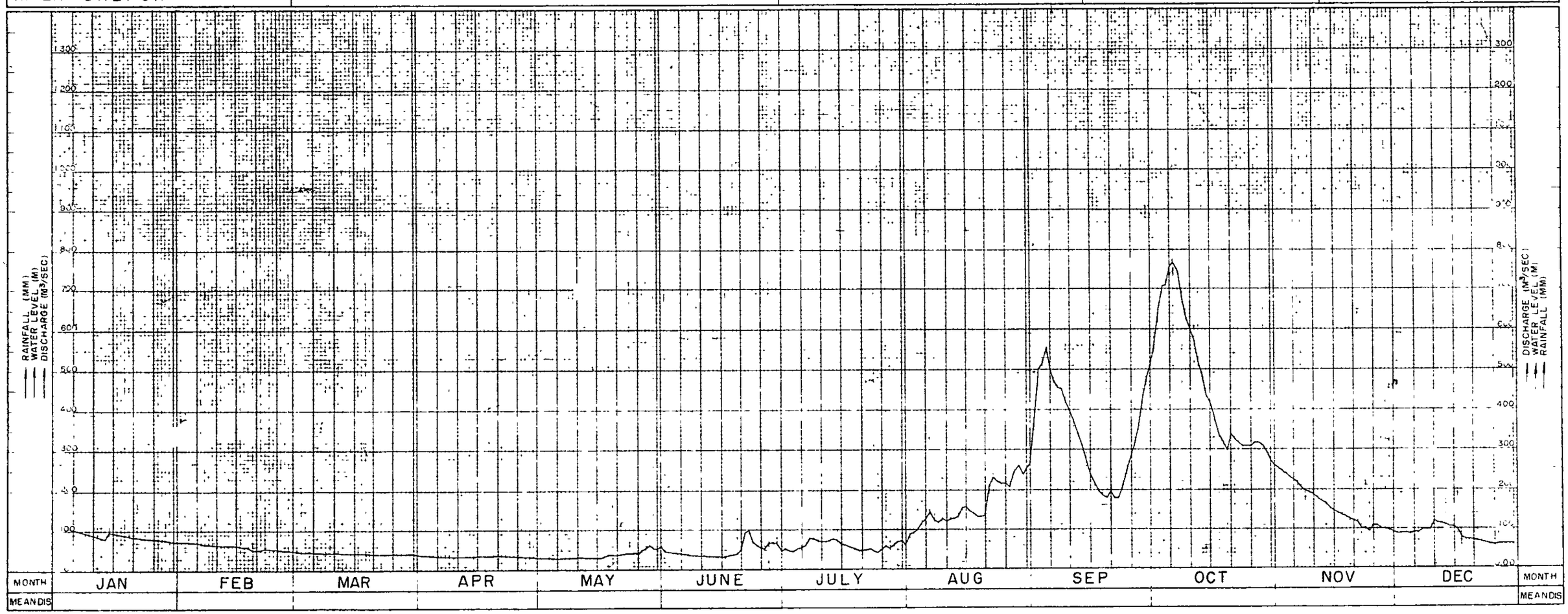
(CONSULTING ENGINEERS)

DRAWN K. Watabe	OFFICE TOKYO	DWG NO.	6
CHECKED	DATE MAY 30 1963		
SUBMITTED	RECOMMENDED	SHEET NO.	
APPROVED			

HYDROGRAPHS

NO. YEAR: 1963

RIVER SREPOK	STATION BAN BUR	DRAINAGE AREA 8 650 km²	GAUGED BY	DRAWN BY



HYDROGRAPHS

NO. YEAR 1964

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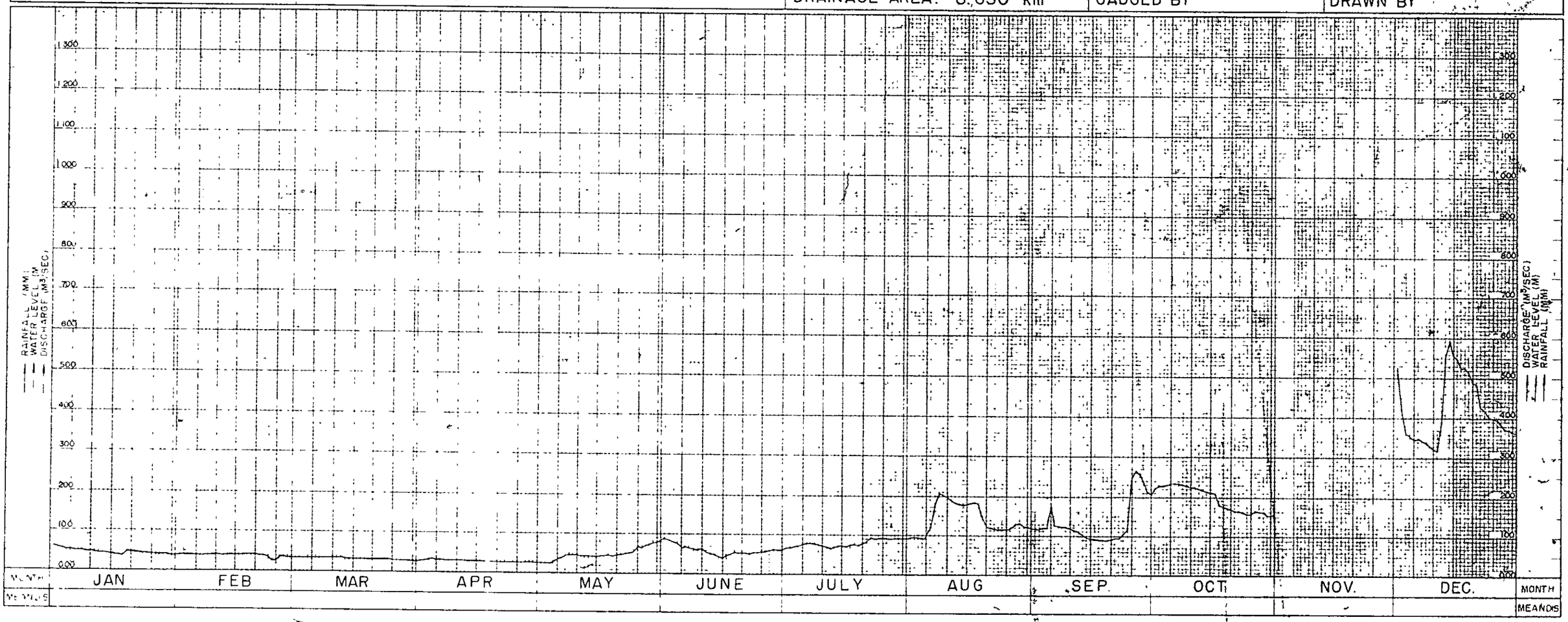

HYDROGRAPHS

NO

YEAR : 1965

RIVER SREPOK	STATION BAN BUR	DRAINAGE AREA 8,650 km²	GAUGED BY	DRAWN BY

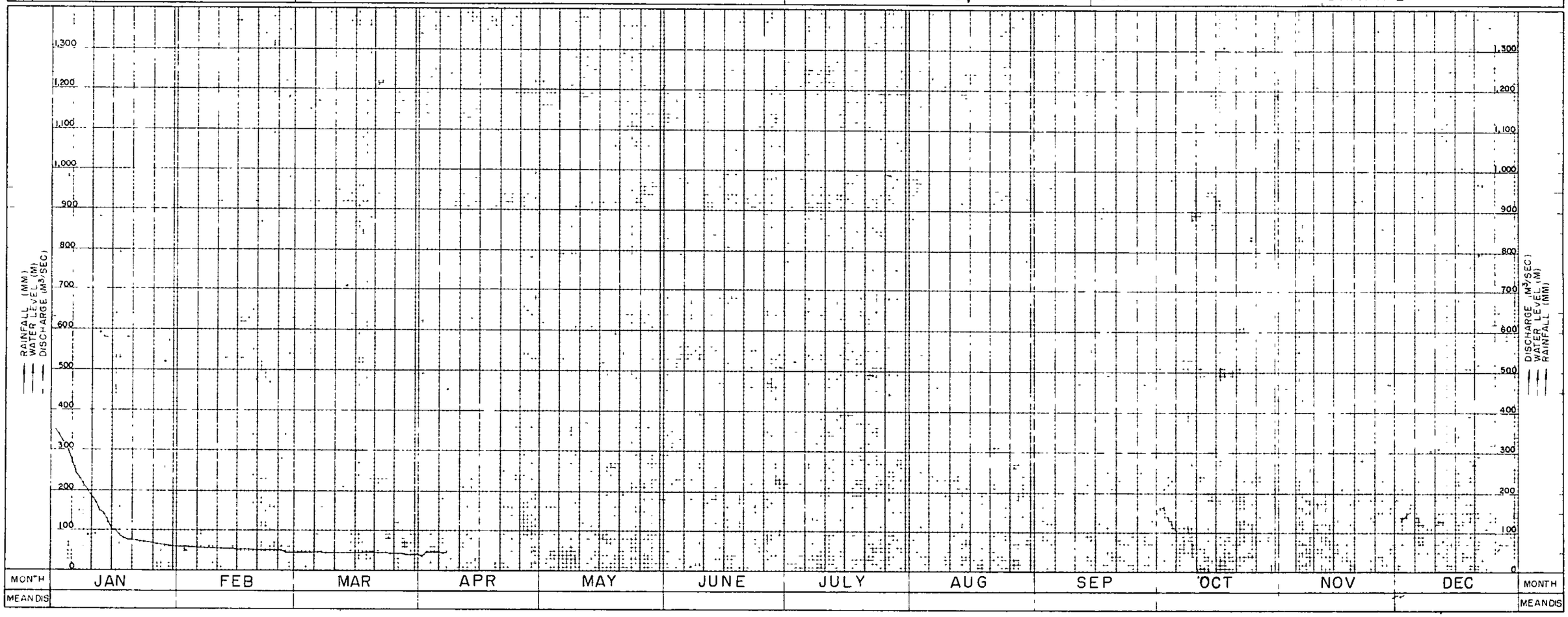

Table I MONTHLY RAINFALL IN BANMETHUOT (mm)

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total	Max. D.R.
1928	4	2	-	408	250	252	342	283	449	70	*	1	(2,061)	96
1929	-	-	13	179	140	333	308	205	346	339	27	17	1,907	80
1930	5	-	40	12	282	389	340	292	269	*	198	67	(1,894)	142
1931	-	-	-	-	-	-	344	618	371	221	-	12	(1,566)	*
1932	*	-	-	25	51	68	73	43	214	210	53	12	(749)	85
1933	4	*	*	182	142	216	248	116	249	448	143	1	(1,749)	140
1934	-	15	16	115	223	242	239	334	476	52	115	-	1,872	102
1935	*	-	65	97	364	164	453	104	407	50	65	1	(1,770)	72
1936	-	-	-	71	177	215	243	380	262	109	26	14	1,497	102
1937	2	*	4	97	286	305	354	335	369	415	85	*	(2,252)	189
1938	0	0	92	58	194	298	208	168	332	395	196	119	2,060	*
1939	4	0	47	197	577	341	210	515	208	55	136	36	2,326	*
1955	2.1	0	2.3	15.6	196.4	254.9	287.0	416.6	188.1	167.8	160.4	1.5	1,692.2	102.0
1956	0.3	0	2.7	277.6	123.3	243.3	233.8	289.9	208.5	99.2	43.2	25.8	1,539.2	78.7
1957	0.8	20.9	131.3	21.6	219.1	316.5	217.9	257.1	359.3	328.3	8.0	-	1,880.8	84.8
1958	2.5	3.8	2.8	69.3	126.1	272.2	218.2	334.8	257.7	340.0	16.7	-	1,644.1	112.8
1959	-	-	27.0	83.7	269.2	189.2	265.6	298.1	203.8	183.1	94.3	26.8	1,640.8	82.8
1960	1.1	0.5	4.2	59.1	311.4	234.7	304.9	179.3	449.9	192.3	120.8	4.3	1,862.5	103.9
1961	1.6	-	69.1	156.3	266.4	321.0	366.0	297.1	249.5	243.5	38.5	5.8	2,014.8	82.2
1962	0.3	3.2	2.4	44.8	158.9	118.9	419.9	263.8	235.2	251.6	118.8	-	1,617.8	81.2
1963	-	1.2	-	17.7	116.4	146.3	232.2	334.1	456.1	176.6	19.7	1.0	1,551.9	67.5
1964	6.8	2.3	29.7	15.1	219.9	134.0	76.6	336.0	209.7	85.2	304.0	130.0	1,549.3	143.0
1965	0.2	5.3	0.8	72.0										
Total	34.7	54.2	549.3	2,273.8	4,693.1	5,054.6	5,984.1	6,449.3	6,769.8	4,431.6	1,959.4	475.8	38,733.3	
Mean	1.7	2.9	25.0	98.9	213.3	229.8	272.0	293.2	307.7	211.0	93.3	22.7	1,760.6	

Remarks; (*) means no record and the months excluded in calculating mean values.