REPUBLICA DE VENEZUELA
MINISTERIO DE OBRAS PUBLICAS
DIRECCION GENERAL DE RECURSOS HIDRAULICOS
DIRECCION DE INFORMACION BASICA

ESTUDIO HIDROLOGICO DEL RIO CABRIALES

(ACTUALIZACION)

JUNIO 1974

HIDROLOGIA MOP

DIVISION DE HIDROLOGIA

I N D I C E

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1. OBJETO

El presente estudio es una actualización del realizado en Julio de 1970 por el Ing. Alfredo Flores Espina y la Hidr° Haydée Guerrero, teniendo la información adicional de 5 años de registro que van desde 1969 a 1973. Al mismo tiempo tiene unas consideraciones diferentes en los valores de áreas impermeables y rugosidad de los canales debido a modificaciones hechas al proyecto de canalización del río Cabriales que originalmente era total y ahora contempla tres tramos en la siguiente forma:

a) Un primer tramo que va desde la confluencia de los ríos Cabriales y Retobo hasta Puente Páez (en la ciudad de Valencia), donde sólo se hará limpieza al cauce sin efectuar cambios en su condición natural.

b) Un segundo tramo desde Puente Páez a Los Samanes, donde se utilizará una sección compuesta de fondo revestido en concreto y taludes en piedra y grama.

c) Un tercer tramo desde Los Samanes hasta El Desvío (Laguna El Paito), donde se utilizará una sección en tierra y taludes en tierra.

Este informe ha sido realizado por el Ing. Armando González B. (Jefe del Distrito Hidrológico 4) con la asistencia técnica del Ing. Alfredo Flores E. (Jefe de la División de Hidrología) y la colaboración de Luis Patiño (Asistente de Hidrología III) en la recolección y procesamiento de la información básica.

2. INFORMACION DISPONIBLE

2.1 Información Cartográfica

Se utilizaron planos a escala 1:25000 de Cartografía Nacional

(Anexo N° 1 copia reducida 1: 100000).

2.2 Información Topográfica

(Datos suministrados por la Dirección de Proyecto Construcción de la Dirección General de Recursos Hidráulicos).

2.3 Información Pluviométrica

En la Tabla N° 1 se presenta una lista de las estaciones dentro y alrededor de la cuenca.

TABLA N° 1

Estación	Serial	Tipo	Período de Registro
Granja Salesiana	1348	PC	Ene. 1940 al presente
Ferrocarril	0461	PR	Ene. 1901 al presente
Bárbula	1309	PR	Nov. 1969 al presente
La Entrada	0409	PR	Oct. 1964 al presente
El Café	1310	PR	Nov. 1968 al presente
Guataparo Cía Inglesa	1358	PR	Sep. 1940 al presente
Guataparo Nicolás	1311	PR	Nov. 1968 al presente
Guataparo Colorado	1339	PR	Nov. 1968 al presente
Guataparo Dique	1359	PR	Jun. 1951 al presente
San Luis-Casa Dorta	1377	PR	Oct. 1940 - Nov. 1950

2.4 Información Evaporimétrica

Guataparo Dique (Tina clase A) (Julio 1951 al presente)

2.5 Información Fluviométrica

Datos provenientes de la estación "Los Samanes" sobre el río Ca-

briales, perteneciente al INOS, con un período de registro desde Abril del 61 al presente, los cuales están implícitamente usados al considerarse la calibración para el Estudio Hidrológico del Río Ca - briales de 1970.

2.6 Estudios Anteriores

Estudio Hidrológico del Río Cabriales (Julio de 1970, Ing. Alfredo Flores Espina e Hidr° Haydée Guerrero).

3. GENERALIDADES

3.1 Características Físicas de la Cuenca

Tomado del Estudio Hidrológico del Río Cabriales anterior. La cuenca del río Cabriales se encuentra localizada en la parte Nor-Oeste del Lago de Valencia, entre los 67° 58' - 68° 09' de longitud y los 10° 15' - 10° 20' de latitud. Su cauce principal tiene sus cabeceras a unos 1500 m.s.n.m. en la cordillera de la costa. Las laderas de las montañas cercanas a Valencia muestran fuerte influencia litológica. Las calizas y cuarcitas macizas son muy resistentes a la erosión y desarrollan declives escarpados pronunciados. En cambio, el granito, el augen-gneis y los esquistos feldes páticos meteorizan rápidamente, por lo regular, donde estas rocas abundan las laderas son menos pendientes. La cuenca del Lago de Valencia consiste de sedimentos aluvionales y lacustres de cenozoico y reciente. Hacia el Norte penetra el frente de

la Cordillera de la Costa, para formar una serie de estrechos valles, depresiones de rumbo Norte-Sur siendo el fondo de los valles, planos y cubierto por sedimentos. La existencia de playas abandonadas cerca del extremo Norte de las depresiones está indicada por la presencia de arenas no consolidadas y por estratificación crozada. En muchos lugares las partes internas de las depresiones están cubiertas con un extenso sistema de cono aluviales que bordea el flanco sur de la serranía. El río Cabriales puede ser considerado según su historia geológica como un río consecuente. En las cercanías del Lago de Valencia, pierde su cauce, no existiendo un patrón de drenaje definido.

Su principal afluente es el río Retobo, el cual se une por su margen derecha, cerca de Naguanagua, teniendo su eje principal una orientación Sur-Este. El área drenada hasta la estación fluviométrica "Los Samanes" es de 136 Km^2, siendo la longitud del cauce principal de 36 Kms, con una pendiente media de 12.2 m/Km. (*)

3.2 Precipitación

La lluvia media anual en la cuenca del río Cabriales hasta la Laguna El Paito es de unos 1100 mm, de acuerdo con el mapa de isoyetas medias del período 1950-65 (Anexo N° 2)

*Tomado del Estudio Hidrológico del Río Cabriales anterior.

4. METODOLOGIA

Se ha empleado el modelo matemático de simulación hidrológica para computadoras digitales "Hydrocomp Simulation Program"(HSP).

El "HSP", está constituido por tres módulos, los cuales pueden operar independientemente.

a) "LIBRARY", donde se efectúan las operaciones referentes a la lectura, verificación, almacenamiento y edición de los datos.

b) "LANDS", se calculan las láminas efectivas en (cms) a partir de los datos guardados en el módulo LIBRARY, mediante la calibración de los parámetros del módulo.

c) "CHANNELS", las láminas calculadas en el módulo "LANDS" son transformados a gastos y luego transitados a través de la red de canales hasta los sitios donde se quiere obtener el hidrograma de salida.

El programa acepta como datos: La lluvia (mm) horaria o diaria (la cual transforma a horaria según un sub-programa), la evaporación diaria (mm) y los gastos medios diarios (m^3/s) . Estos datos deben ser seleccionados de estaciones que sean representativas de la zona en estudio.

5. CARACTERISTICA DEL ESTUDIO

Se simularon 41 años de escurrimiento, a partir de la lluvia y la evaporación registrada, tomándose en cuenta la expanción de la ciudad de Valencia.

5.1 Ajuste del Modelo

Aunque las caracteristicas fisicas de la cuenca son aproximadamente iguales en toda su extensión, fué necesario considerar tres segmen

tos (Anexo N° 1) en el módulo "LANDS", con el objeto de introducir los efectos de urbanismo sobre el escurrimiento. Se asoció a estos segmentos la estación pluviométrica "Avenida Bolívar", la cual fué seleccionada por: tener un período de registro de 41 años, la confiabilidad de sus datos y su ubicación dentro de la cuenca. Como los registros de lluvia de "Avenida Bolívar" son diarios, hubo la necesidad de transformarlos a datos horarios. Esto se efectuó, utilizando las distribuciones horarias de la estación pluviométrica "Guataparo en Cía Inglesa" para distintas intensidades de lluvia, estación escogida, por estar en una zona de régimen climatológica similar. Con respecto a la evaporación y basándonos en lo anteriormente expuesto, se seleccionaron los datos provenientes de la estación evaporimétrica Guataparo Dique (Tina-Clase A), utilizándose un coeficiente de tina de 0.80, que le fué aplicado a todo el registro. Para completar el período 1932-1951, los datos de evaporación fueron calculados a partir de su propio registro, comparando la precipitación y la evaporación medida.

Para la selección de los parámetros del modelo "LANDS", se elaboró primeramente un plano isoyético medio anual (Anexo N° 2). Luego como primer tanteo se utilizaron los valores encontrados de varios parámetros en los ajustes del modelo para la cuenca del río Guataparo colindante con la del estudio y posteriormente por medio de un procedimiento de tanteo se afinaron hasta encontrar la mejor correlación (Anexo N° 3). En la (Tabla N° 2) se presentan los valores definitivos de los pa-

rámetros para esta primera parte.

TABLA N° 2

		I	II	III
K1	Factor de ajuste de lluvia	0.90	0.90	0.90
A	Area impermeable	0.03	0.15	0.32
EXPM	Almacenamiento por intercepción	2.5	2.5	2.5
UZSN	Almacenamiento zona alta nominal	3.0	3.0	3.0
LZSN	Almacenamiento zona baja nominal	6.50	6.50	6.50
K3	Rata de evaporación real	0.3	0.3	0.3
K24L	Percolación al agua subterránea profunda.	0.0	0.0	0.0
K24EL	Evaporación desde los cauces	0.0	0.0	0.0
INFILTRA-TION	Indice de infiltración	8.0	8.0	8.0
INTERFLOW	Indice de gasto subalveo	2.0	2.0	2.0
L	Longitud para el flujo superficial	100.0	100.0	100.0
SS	Pendiente del flujo superficial	0.1	0.1	0.1
NN	N de Manning para flujo superficial	0.3	0.3	0.3
IRC	Rata de recesión diaria del gasto subalveo	0.55	0.55	0.55
KV	Recesión del agua subterránea, rata variable	0.5	0.5	0.5
KV24	Recesión del agua subterránea, rata constante	0.995	0.995	0.995

La red de canales para el módulo "CHANNELS", se indica en el Anexo N° 4.

Las características físicas de las secciones de los canales se obtuvieron mediante levantamiento topográfico de las mismas.

Los tramos de la red fueron seleccionados de acuerdo al desarrollo urbano previsto para las diferentes subáreas.

5.2 Simulación de 41 años de Escurrimientos

En la simulación de 41 años de escurrimientos, dos aspectos de las características físicas de la cuenca hay que tomar en cuenta:

a) El desarrollo futuro de la ciudad de Valencia

b) La geometría y rugosidad del cauce principal desde el Puente Páez hacia abajo debido a la canalización.

5.2.1 Desarrollo Futuro de la Ciudad de Valencia

La previsión del desarrollo urbanístico en la ciudad de Valencia dentro de la cuenca del río Cabriales, se tomó en cuenta para la estimación de futuras áreas impermeables con que contará la cuenca, que será el factor que tendrá más influencia en la determinación de los volúmenes a escurrirse, así como su distribución en el tiempo, ya que los otros parámetros sufrirán cambios de menor cuantía y por lo tanto pueden considerarse constantes.

Se han seleccionado tres segmentos (Anexo N° 1) para el Módulo LANDS, diferenciados por el valor del parámetro (Area impermeable) de acuerdo con la zonificación existente en las Oficinas de Desarrollo Urbanístico del Ministerio de Obras Públicas en Valencia.

5.2.2 Sistema de Canales

Se han considerado 6 tramos para la utilización del mó

dulo "CHANNELS", seleccionados en base a: ser cauces principales y por sus características físicas. La geometría y la rugosidad de las secciones transversales en los últimos tramos (5 y 6), donde se realizará la canalización del río, fueron suministradas por la Dirección de Proyecto-Construcción de la Dirección General de Recursos Hidráulicos.

En la Tabla N° 3 se presenta un resumen de estos datos (Ver Anexo N° 1).

TABLA N° 3

CARACTERISTICAS DE LOS TRAMOS

Sitio	Area (Km^2)	Long. (Km)	Elevación Sup. (msnm)	Elevación inf. (msnm)	Rugosidad (N)
Río Retobo	39	9.0	1300	493	0.020
Río Cabriales:					
Guaparo	30	5.0	493	473	0.050
Puente Páez	28	6.5	473	460	0.120
Los Samanes	13	2.5	460	447	0.020
Laguna Paíto	54	12.0	447	430	0.026
Bárbula	26	10.0	1500	493	0.060

5.2.3 Simulación de 41 Años

A partir de 41 años de lluvia y la evaporación, se sintetizaron 41 años de escurrimiento en la cuenca, tomándose en cuenta las modificaciones físicas introducidas a través de los parámetros en el módulo "LANDS", y el cambio de geometría de las secciones transversales de los canales. En el Anexo N° 5 se resumen los resultados obtenidos de la computadora digital para seis (6) puntos de concentración de escurrimiento, seleccionados a lo largo del curso (Ver Anexo N° 1) y en el Anexo N° 5-A se dan los caudales diarios simulados hasta el si-

tio Laguna El Paito (Tramo 6 del Segmento III).

6. CRECIENTES

El módulo "CHANNELS", tiene entre sus distintas opciones, el suministro de los gastos horarios por encima de un determinado valor que se le da como dato de entrada, así como también los gastos diarios para cada año y los picos máximos anuales, para los diferentes puntos de la cuenca donde se requieran estas informaciones.

6.1 Frecuencia de Crecientes

Con los datos correspondientes a los picos máximos anuales para el período de 41 años, se procedió a calcular los picos a esperarse para las frecuencias de: 2.33; 5; 10; 25; 50 y 100 años, mediante el método estadístico de Gumbel (Anexo N° 6) para los sitios seleccionados.

Las curvas de frecuencia resultantes se dan en el Anexo N° 7.

En la Tabla N° 4 se muestra un resumen de estos resultados.

TABLA N° 4

Sitio	Area (Km^2)	Gasto (m^3/seg) Frecuencia (Años)					
		2.33	5	10	25	50	100
Río Retobo	39	7	14	19	26	32	37
Río Cabriales:							
Bárbula	26	4	8	12	16	19	22
Guaparo	95	21	33	42	53	62	70
Pte. Páez	123	45	61	74	91	103	115
Los Samanes	136	54	73	88	107	121	135
Laguna Paito	190	54	76	94	118	133	150

6.2 Hidrograma Unitario

Se calcularon en base a las crecientes simuladas, las cuales se consideraron históricas, separándose el flujo base y tomándose en cuenta de que estuvieran en un rango de ± 25%: el pico unitario, el tiempo de pico y el tiempo base. En la Tabla N° 5 se resumen las características del hidrograma unitario en El Paito (*). (Ver Anexo N° 8)

TABLA N° 5

Sitio	Pico Unitario (m^3/seg/mm)	Tiempo de Pico (Hrs)	Tiempo Base (Hrs)
Río Cabriales Laguna Paito	90	4	12

6.3 Hidrogramas Totales

Se calculó la lámina efectiva generadora de la creciente, dividiendo el pico correspondiente a una frecuencia determinada entre el pico unitario del sitio en estudio.

Luego se multiplicaron las ordenadas del hidrograma unitario por la lámina efectiva obteniéndose así el hidrograma de la creciente. Los valores correspondiente a los volúmenes escurridos para las crecientes se

(*) La información para los otros sitios está disponible en la Oficina Central de la División de Hidrología.

muestran en la Tabla N° 6 y en el Anexo N°8A un ploteo de los Hidrogramas.

TABLA N° 6

VOLUMENES EN MILLONES DE m^3

Sitio	Frecuencia (Años)					
	2,33	5	10	25	50	100
Río Cabriales Laguna Paito	11	16	20	25	28	32

6.4 Efectos del Urbanismo sobre la Curva de Frecuencia de Crecientes. (por el Ing. Humberto Cartaya).

Los cambios en el uso de las tierras de una cuenca, introducen cuatro efectos interrelacionados pero separables sobre la hidrología del área: cambios en las características del pico de creciente, en el escurrimiento total, en la calidad del agua y en la apariencia del curso.

La forma del hidrograma de escurrimiento urbano sufre por lo tanto modificación y el parámetro que ejerce el principal control sobre éste, es el tiempo requerido para que el agua escurra, ó sea el retardo de la cuenca. La modificación de éste, se debe a cambios en las pendientes de la cuenca y en los patrones de drenaje; introducidos por las canalizaciones, calles, alcantarillados y a la reducción de la turbulen

cia del flujo en el canal.

Estos aspectos se consideraron en la elaboración del modelo (Párrafo 5.2.1) y se manifiestan en los resultados cuando se comparan las curvas de frecuencia de los valores registrados y simulados para el período común de 8 años (1960-1967) en Los Samanes (Anexo N° 9).

Con el objeto de evaluar las consideraciones hechas en este estudio sobre el efecto urbanístico previsto para Ciudad de Valencia dentro de la cuenca del río Cabriales, se procedió a calcular las curvas de frecuencia para varios estados de urbanismo correspondiente a un área unitaria de 1 milla cuadrada (2.59 Km^2) por medio de los pasos siguientes:

1. Se obtuvieron las curvas de frecuencia para el período común, registrado y simulado en Los Samanes (Anexo N° 9).

2. Se transformaron estas curvas a forma adimensional (Anexo N° 10) dividiendo el caudal de cada frecuencia entre el medio anual (Q 2,33).

3. Se estableció la curva de relación Q 2,33 vs. Area de Drenaje para las condiciones actuales y simuladas de la cuenca hasta Los Samanes (Anexo N° 11). Como no se tiene la información necesaria para establecer la relación en las condiciones actuales de la cuenca, se procedió a deducir ésta por medio de la tendencia de la obtenida con los valores simulados, pasándola por el punto (Q = 26 m^3/seg, Area = 136 Km^2), que es donde se cuenta con mediciones.

4. De las relaciones anteriores se extractaron los valores de creciente media anual (Q 2,33) para un área unitaria de 1 milla cuadrada (2,59 Km^2).

Q 2,33 = 0.178 m^3/seg (condiciones actuales de la cuenca)

Q 2,33 = 0.24 m^3/seg (simulado)

5. Con los valores obtenidos en (4) y por medio de las curvas deducidas según el punto (2), se formaron las curvas de frecuencia de crecientes para las condiciones actuales y simuladas correspondientes a un área unitaria. (Anexo N° 12).

6. Finalmente, se obtuvieron las curvas de frecuencia para varios estados de urbanismo por medio de la relación adimensional de crecientes (Anexo N° 10) para las condiciones actuales de la cuenca y con la creciente media anual (Q 2,33 = 0.178 m^3/seg) afectada de los valores de efectos de urbanismo, obtenidos por diferentes investigadores en ciudades Norte-Americanas y publicados por el Geological Survey (*). Dichos datos se resumen en la Tabla N° 7.

TABLA N° 7

% de área servida con alcantarillado	% de área impermeable	Relación a la creciente media anual
0	0	1
20	20	1.5
40	40	2.3
50	50	2.7
80	60	4.2
100	60	4.4

De lo anterior se obtuvo el juego de curvas mostradas en el Anexo N° 12.

En estas se aprecia, que las consideraciones hechas en este estudio sobre los efectos del urbanismo en la hidrología del área, sería equivalente al de una cuenca, cuyo desarrollo sea de 20% de área servida con alcantarillado y 20% de área impermeable. Resultado que parece razonable cuando se observa que el desarrollo urbanístico previsto para la ciudad de Valencia, sólo cubrirá una pequeña parte del área de la cuenca a lo largo del curso del río Cabriales.

(*) "Hydrology for Urban Land Planning -A Guidebook on the Hydrologic Effects of Urban Land Use". Luna B. Leopold. Geological Survey. Circular 554 - 1968.

7. APORTES DEL RIO CABRIALES A LA LAGUNA EL PAITO

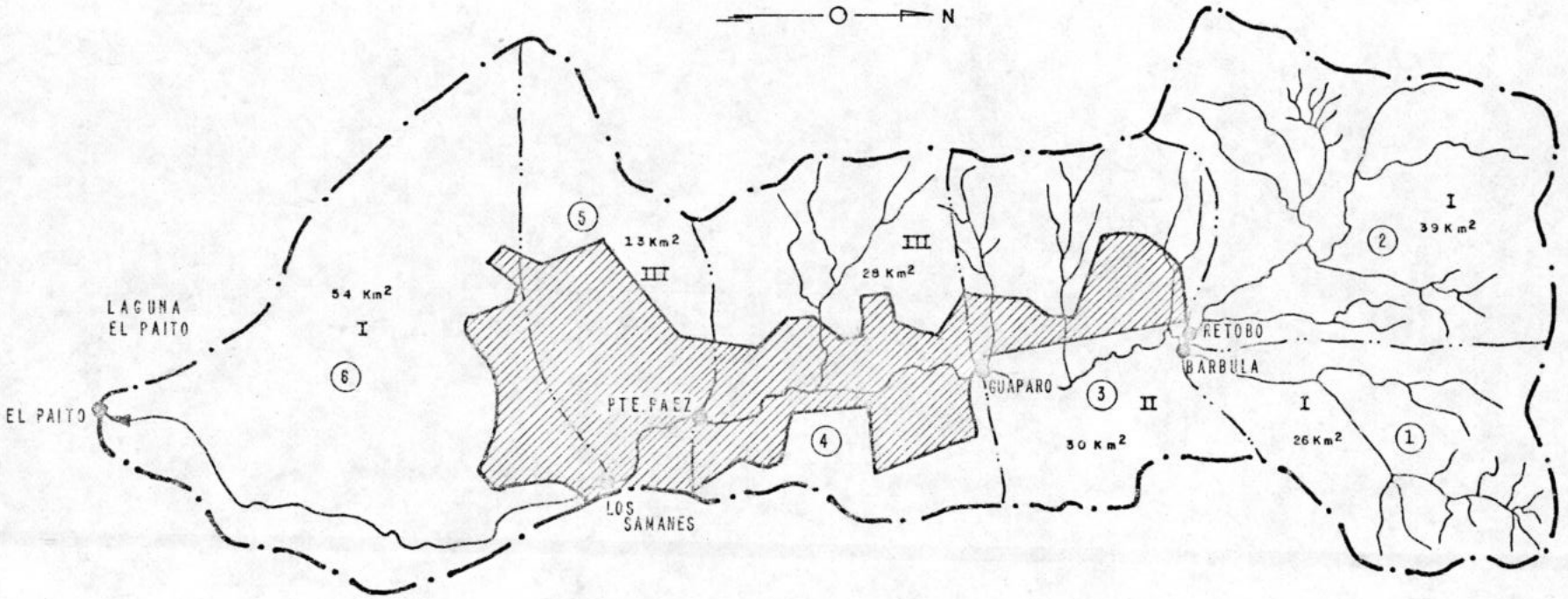
El punto de salida del Tramo N° 6, corresponde a la entrada del río Cabriales a la Laguna El Paito. Los volúmenes mensuales aportados para los 41 años de simulación, se presentan en la Tabla N° 5 (En el Anexo N° 5-A se muestran los gastos medios diarios obtenidos de la computadora digital, haciéndose notar que tanto los gastos medios diarios, así como los volúmenes mensuales, no incluyen los aportes provenientes de las descargas de aguas negras de la ciudad.

8 RESULTADOS

A continuación se presenta un resumen de los resultados obtenidos para el sitio El Paito.

Area de la cuenca	190 Km^2
Longitud del cauce principal	49 Km
Pendiente media del curso	1,2 %
Precipitación media anual	1100 mm
Caudal máximo instantáneo (Tr = 5 años)	76 m^3/seg
Caudal máximo instantáneo (Tr = 10 años)	94 m^3/seg
Caudal máximo instantáneo (Tr = 25 años)	117 m^3/seg
Caudal máximo instantáneo (Tr = 50 años)	133 m^3/seg
Caudal máximo instantáneo (Tr = 100 años)	150 m^3/seg
Escurrimiento medio anual (41 años) ..... (no incluye descargas de aguas negras)	49 x 10^6 $m^3/año$

HC/mv
28-06-74



LEYENDA

- DIVISORIA DE CUENCA
- LIMITE DE TRAMO
- AREA URBANA
- SITIO DE PRODUCCION DE CAUDALES

13 Km² AREA DE TRAMO

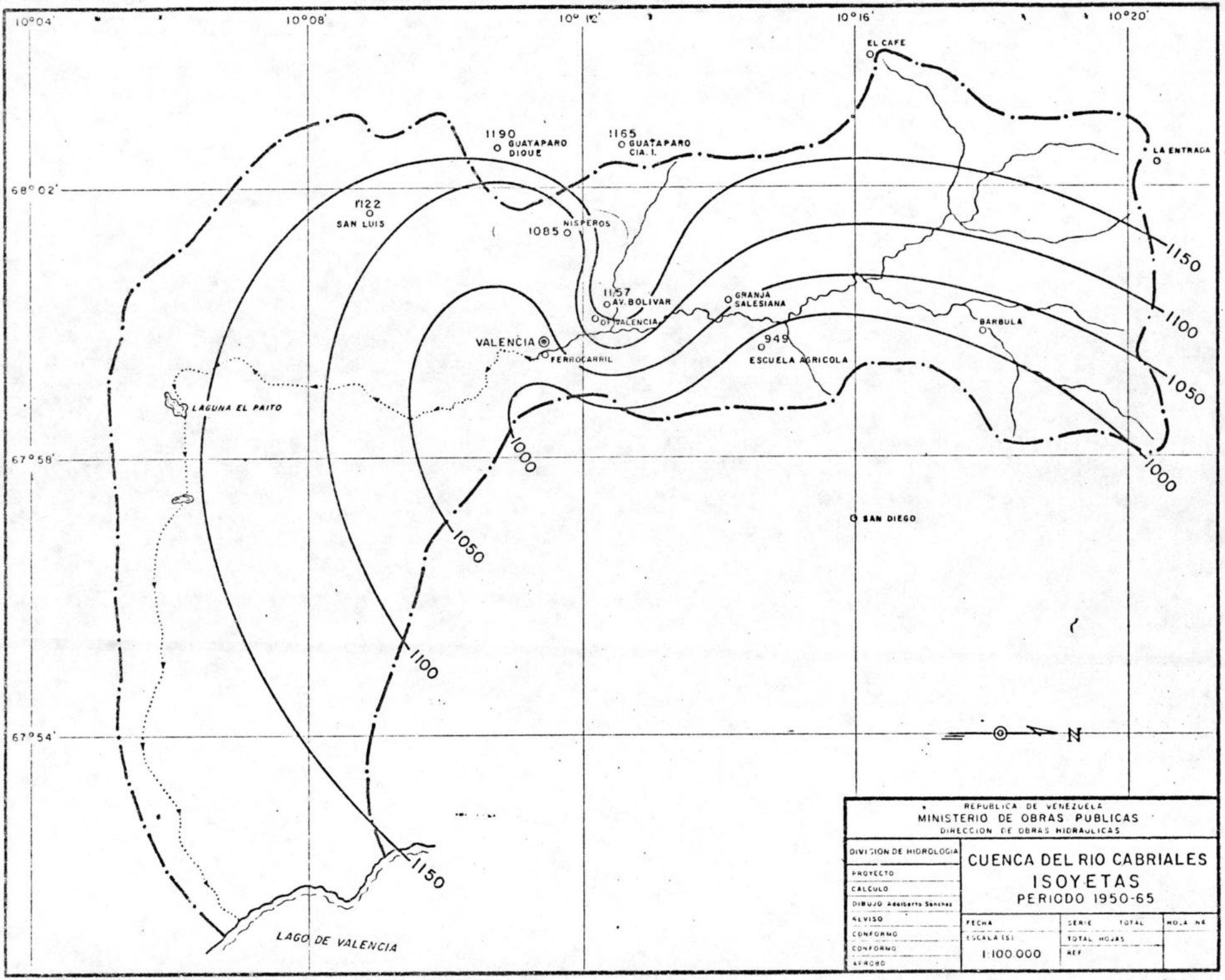
II SEGMENTO

CUENCA DEL RIO CABRIALES

0 20 40 60 80 100

ESCALA GRAFICA

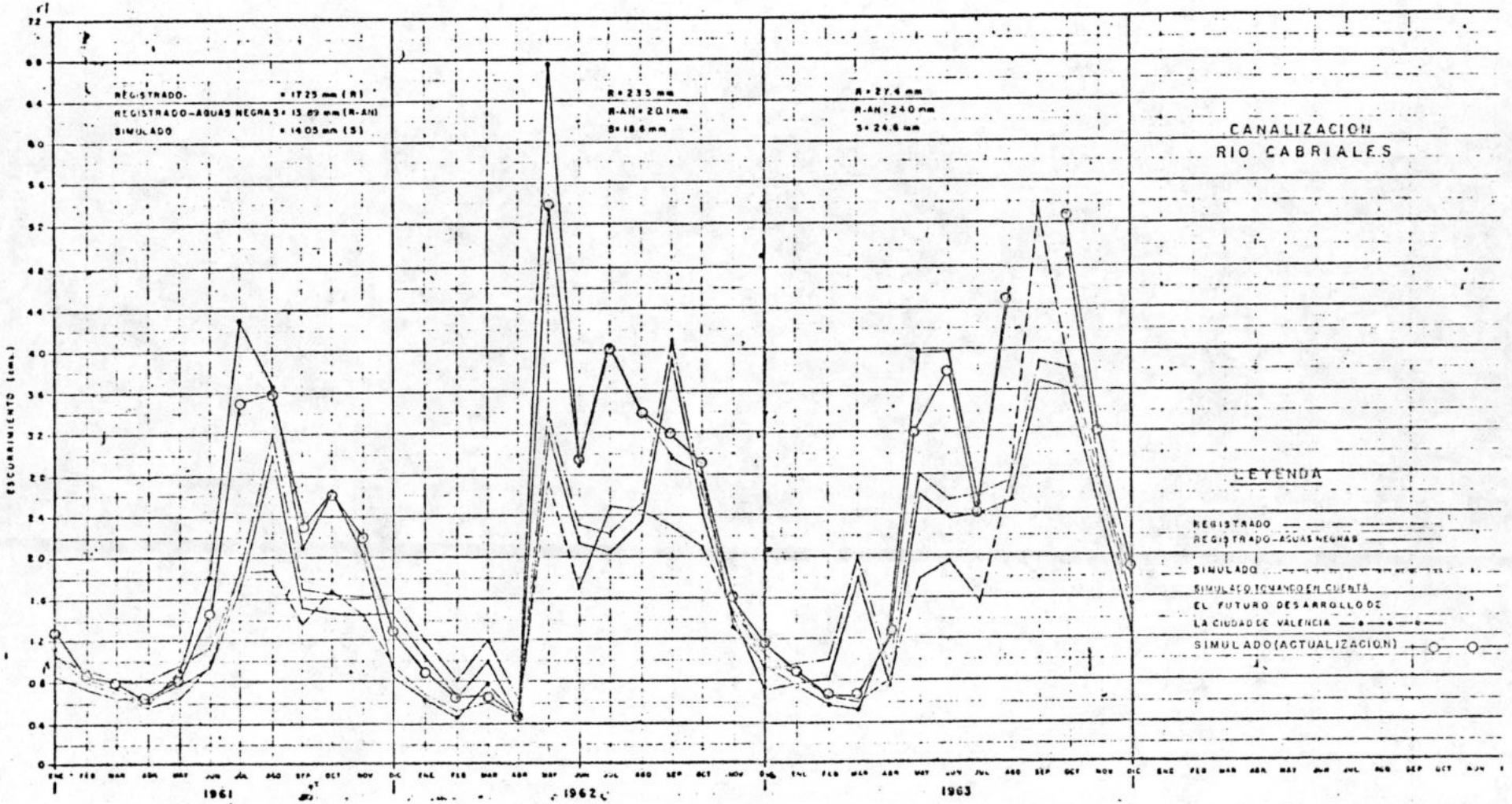
ANEXO Nº 1



REPUBLICA DE VENEZUELA
MINISTERIO DE OBRAS PUBLICAS
DIRECCION DE OBRAS HIDRAULICAS

DIVISION DE HIDROLOGIA	CUENCA DEL RIO CABRIALES
PROYECTO	ISOYETAS
CALCULO	PERIODO 1950-65
DIBUJO Adalberto Sanchez	
REVISO	FECHA / SERIE / TOTAL / HOJA Nº
CONFORMO	ESCALA (S) 1:100.000 / TOTAL HOJAS
CONFORMO	REF
APROBO	

ANEXO Nº 2


REGISTRADO- = 17.25 mm (R)
REGISTRADO-AGUAS NEGRAS = 15.89 mm (R-AN)
SIMULADO = 14.05 mm (S)
R = 23.5 mm
R-AN = 20.1 mm
S = 18.6 mm
R = 27.4 mm
R-AN = 24.0 mm
S = 24.6 mm
ESCURRIMIENTO (mm)
1961
1962
1963
CANALIZACION
RIO CABRIALES
LEYENDA
REGISTRADO
REGISTRADO-AGUAS NEGRAS
SIMULADO
SIMULADO TOMANDO EN CUENTA EL FUTURO DESARROLLO DE LA CIUDAD DE VALENCIA
SIMULADO (ACTUALIZACION)

ANEXO Nº 3

M O P HIDROLOGIA – MODELO HIDROLOGICO HSP

PARAMETROS ASIGNADOS EN EL MODULO CHANNELS

CUENCA DEL RIO CABRIALES FECHA

NOMBRE DEL ARCHIVO TABLA

REACH	LIKE	TYPE	TRIB TO	SEGMT	LENGTH	AREA	EL-UP	EL-DOWN	W 1	W 2	H	S-F P	N-CH	N-FP
NUMERO DEL TRAMO	IGUAL A	TIPO	TRIBUTARIO A	SEGMENTO	LONGITUD DEL TRAMO	AREA CONTRIB AL TRAMO	ELEVACION SUPERIOR	ELEVACION INFERIOR	ANCHO SUPERIOR DE CANAL	ANCHO INFERIOR DEL CANAL	PROFUNDIDAD DEL CANAL	PEND LATERAL PLANOS INUND	N MANNING DEL CANAL	N MANNING PLANOS INUND
1	O	RECT	3	1	10.0	26.0	800.	473.	12.	18.	2.3	.005	.060	0.10
2	O	RECT	3	1	9.	39.	750.	493.	10.	18.	2.7	.005	.060	0.10
3	O	RECT	4	2	8.3	30.	493.	473.	4.7	16.	3.9	.005	.050	0.10
4	O	RECT	5	3	6.6	28.	473.	460.	6.0	18.	3.9	.005	.12	0.10
5	O	RECT	6	3	6.3	13.	460.	447.	12.0	22.5	4.0	.005	.02	0.10
6	O	RECT	7	1	8.5	54.	447.	430.	12.	22.5	4.5	.005	.026	0.10

ANEXO N°4

ANEXO 5

RIO PETORC AREA:30 KM2 VOLUMENES EN MILL. M3
PERIODO DE REGISTROS 1933 - 1973

	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC	ANUAL
1933	3.20	2.50	2.30	2.00	1.80	1.60	1.60	1.60	1.80	1.80	1.30	0.90	22.40
1934	0.70	0.50	0.50	0.40	0.50	0.40	0.50	0.50	0.60	0.80	0.60	0.50	6.50
1935	0.40	0.30	0.20	0.30	0.50	0.40	0.40	0.90	0.60	0.80	0.80	0.60	6.20
1936	0.40	0.30	0.20	0.40	1.70	1.70	2.10	1.40	1.20	1.20	1.20	0.90	12.30
1937	0.80	0.50	0.40	0.40	0.50	0.60	0.70	1.40	0.90	0.90	0.90	0.80	8.80
1938	0.50	0.40	0.30	0.30	0.40	0.80	0.90	1.20	2.00	1.50	1.60	1.10	11.00
1939	0.70	0.50	0.40	0.40	0.30	0.40	0.50	0.50	0.60	1.00	0.70	0.50	6.50
1940	0.40	0.30	0.30	0.20	0.20	0.40	0.50	0.80	0.80	0.90	0.60	0.50	5.90
1941	0.40	0.30	0.30	0.20	0.80	0.50	0.60	0.50	0.70	0.70	0.50	0.40	6.00
1942	0.30	0.20	0.20	0.50	0.50	0.70	0.80	0.90	1.30	1.20	1.00	0.90	8.50
1943	0.60	0.40	0.40	0.50	1.00	0.90	1.40	1.40	1.90	1.50	1.10	0.70	11.80
1944	0.50	0.40	0.40	0.30	0.50	0.70	0.60	1.20	2.00	1.20	0.90	0.60	9.30
1945	0.50	0.30	0.30	0.40	0.50	1.10	1.50	1.60	2.10	1.30	0.90	0.70	11.20
1946	0.50	0.40	0.30	0.50	0.70	[illegible]	0.50	1.70	1.60	1.90	1.20	0.90	10.40
1947	0.60	0.40	0.40	0.30	0.20	0.40	0.80	0.90	0.80	0.80	0.70	0.50	6.90
1948	0.40	0.30	0.30	0.20	0.40	0.60	0.80	1.10	1.00	0.90	0.80	0.60	7.40
1949	0.40	0.30	0.20	0.20	0.30	0.40	0.40	0.60	0.50	0.60	1.10	0.50	5.60
1950	0.40	0.30	0.30	0.30	0.40	0.50	0.60	1.70	0.90	1.10	1.80	1.20	9.00
1951	0.70	0.40	0.40	0.40	0.70	0.90	1.10	1.10	1.10	1.10	0.80	0.60	9.40
1952	0.50	0.30	0.30	0.50	0.50	0.60	0.90	1.00	1.90	1.10	0.70	0.60	8.90
1953	0.40	0.20	0.30	0.30	0.70	0.70	0.90	1.20	1.20	1.10	0.90	0.60	8.60
1954	0.50	0.30	0.30	0.30	0.50	1.00	1.70	1.20	1.20	2.30	1.80	1.00	11.60
1955	0.60	0.40	0.40	0.40	0.40	0.60	0.70	0.70	0.60	1.20	0.90	0.80	7.70
1956	0.50	0.40	0.20	0.30	0.40	0.40	0.60	0.60	0.80	0.70	0.60	0.50	6.10
1957	0.70	0.30	0.20	0.20	0.20	0.30	0.30	0.30	0.40	0.40	0.40	0.20	4.00
1958	0.20	0.20	0.10	0.20	0.40	0.50	0.50	0.80	1.00	1.00	0.70	0.50	6.10
1959	0.40	0.30	0.30	0.20	0.40	0.40	0.60	0.60	0.70	1.10	0.80	0.60	6.40
1960	0.50	0.30	0.30	0.40	0.50	0.50	0.80	1.00	1.30	1.30	1.00	0.80	8.70
1961	0.50	0.40	0.40	0.30	0.30	0.30	0.60	0.90	0.70	0.80	0.70	0.50	6.40
1962	0.40	0.30	0.20	0.20	0.90	0.80	1.20	1.10	1.00	0.90	0.70	0.50	8.30
1963	0.40	0.20	0.30	0.30	0.50	0.90	0.70	1.20	3.10	1.80	1.30	0.80	11.60
1964	0.60	0.40	0.40	0.20	0.40	0.50	0.70	0.80	0.80	1.50	0.80	0.50	7.70
1965	0.40	0.30	0.30	0.20	0.40	0.50	0.70	1.10	1.20	1.00	1.00	0.70	7.80
1966	0.50	0.40	0.30	0.30	0.40	1.30	1.10	1.20	1.20	1.40	1.00	1.30	10.40
1967	0.70	0.50	0.40	0.50	0.50	0.70	1.00	1.00	1.50	1.30	1.00	0.70	9.80
1968	0.50	0.40	0.30	0.40	0.40	0.50	0.40	0.90	1.10	1.00	0.70	0.50	7.00
1969	0.40	0.30	0.30	0.20	0.30	0.40	0.40	0.60	0.50	1.10	1.00	0.70	6.20
1970	0.50	0.30	0.30	0.30	0.40	0.40	0.50	0.90	0.70	0.70	0.70	0.70	6.50
1971	0.40	0.30	0.30	0.40	0.50	0.40	0.50	0.40	0.50	0.50	0.50	0.30	5.00
1972	0.30	0.20	0.20	0.20	0.40	0.30	0.50	0.50	0.60	0.50	0.40	0.30	4.50
1973	0.30	0.20	0.20	0.20	0.20	0.30	0.20	0.50	0.60	0.60	0.50	0.40	4.20
MEDIA	0.55	0.40	0.37	0.36	0.51	0.63	0.77	0.94	1.10	1.09	0.89	0.66	
PORCENTAJE	6.67	4.81	4.43	4.37	6.23	7.62	9.27	11.34	13.35	13.14	10.81	7.94	
COEFICIENTE	0.77	0.57	0.51	0.54	0.72	0.94	1.07	1.31	1.65	1.52	1.34	0.92	

REGIMEN : MESES CON COEFICIENTE MAYOR O IGUAL A 1

MEDIA MENSUAL = **0.69**

CARACTERISTICAS ANUALES
MEDIA= **8.26**
VARIANCIA = 10.0 DESVIACION STANDARD = 3.16
INDICE VARIABILIDAD = 0.266
FLUCTUACION STANDARD (F) = 4.61
COEFICIENTE DE FLUCTUACION = 0.558
COEFICIENTE DE FLUCTUACION EN PORCIENTO = 55.8

RIO CARATASES EN BARRIGA AREA:24 KM2 VOLUMENES EN MILL. M3
PERIODO DE REGISTROS 1933 - 1973

	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC	ANUAL
1933	2.10	1.60	1.60	1.30	1.20	1.10	1.10	1.10	1.20	1.20	0.90	0.60	15.00
1934	0.60	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.40	0.50	0.40	0.30	4.30
1935	0.30	0.30	0.30	0.20	0.40	0.30	0.30	0.50	0.40	0.60	0.60	0.40	4.40
1936	0.30	0.30	0.20	0.30	0.60	1.10	1.40	1.00	0.80	0.80	0.80	0.60	8.30
1937	0.50	0.30	0.30	0.30	0.40	0.40	0.50	0.90	0.60	0.60	0.60	0.50	5.70
1938	0.30	0.30	0.30	0.30	0.30	0.50	0.60	0.90	1.30	1.00	1.10	0.70	7.20
1939	0.50	0.30	0.30	0.20	0.20	0.30	0.30	0.30	0.40	0.70	0.50	0.30	4.30
1940	0.30	0.30	0.30	0.20	0.20	0.30	0.30	0.50	0.50	0.60	0.40	0.30	3.90
1941	0.30	0.30	0.20	0.30	0.50	0.30	0.40	0.40	0.50	0.60	0.30	0.30	4.00
1942	0.20	0.30	0.30	0.30	0.40	0.50	0.60	0.60	0.90	0.80	0.70	0.60	5.90
1943	0.40	0.30	0.30	0.30	0.70	0.60	0.90	1.00	1.20	1.00	0.70	0.50	7.50
1944	0.40	0.30	0.20	0.20	0.30	0.50	0.40	0.90	1.40	0.80	0.60	0.40	6.30
1945	0.30	0.20	0.20	0.30	0.30	0.70	1.00	1.00	1.40	0.80	0.60	0.50	7.30
1946	0.30	0.30	0.20	0.30	0.40	0.60	0.60	0.80	1.10	1.30	0.90	0.60	6.80
1947	0.40	0.30	0.30	0.20	0.30	0.30	0.50	0.60	0.50	0.50	0.40	0.30	4.50
1948	0.30	0.30	0.20	0.20	0.30	0.40	0.50	0.70	0.70	0.60	0.50	0.40	4.90
1949	0.30	0.20	0.20	0.20	0.20	0.30	0.30	0.40	0.40	0.60	0.80	0.40	4.00
1950	0.30	0.30	0.30	0.30	0.30	0.30	0.40	0.50	0.60	0.70	1.20	0.80	5.70
1951	0.40	0.40	0.30	0.30	0.40	0.60	0.70	0.70	0.70	0.70	0.60	0.40	6.20
1952	0.30	0.30	0.30	0.30	0.30	0.40	0.60	0.60	1.20	0.80	0.50	0.40	5.80
1953	0.30	0.30	0.30	0.30	0.40	0.50	0.60	0.90	0.90	0.80	0.60	0.40	5.80
1954	0.30	0.30	0.30	0.30	0.30	0.40	0.80	0.90	0.90	1.50	1.20	0.70	7.60
1955	0.40	0.30	0.30	0.30	0.30	0.40	0.40	0.40	0.60	0.80	0.50	0.50	5.10
1956	0.40	0.30	0.20	0.20	0.30	0.30	0.40	0.40	0.50	0.50	0.40	0.30	4.20
1957	0.20	0.20	0.20	0.10	0.20	0.20	0.20	0.20	0.30	0.30	0.20	0.20	2.50
1958	0.10	0.10	0.10	0.10	0.30	0.30	0.30	0.50	0.60	0.70	0.50	0.30	3.90
1959	0.20	0.20	0.20	0.10	0.20	0.30	0.40	0.40	0.50	0.80	0.50	0.40	4.20
1960	0.30	0.30	0.20	0.30	0.30	0.40	0.50	0.70	0.80	0.80	0.70	0.60	5.80
1961	0.40	0.30	0.30	0.20	0.20	0.30	0.40	0.40	0.50	0.50	0.50	0.40	4.40
1962	0.30	0.30	0.20	0.10	0.60	0.40	0.60	0.70	0.70	0.40	0.50	0.30	5.60
1963	0.30	0.30	0.30	0.20	0.40	0.40	0.50	0.80	2.10	1.20	0.80	0.50	7.80
1964	0.40	0.30	0.30	0.30	0.30	0.30	0.50	0.50	0.40	1.00	0.50	0.40	5.00
1965	0.30	0.30	0.30	0.20	0.30	0.40	0.40	0.70	0.80	0.70	0.40	0.40	5.10
1966	0.30	0.30	0.30	0.30	0.30	0.80	0.50	0.30	0.80	0.90	0.40	0.90	6.70
1967	0.50	0.30	0.30	0.30	0.40	0.40	0.70	0.70	1.00	0.80	0.60	0.50	6.60
1968	0.30	0.30	1.30	0.30	0.30	0.40	0.30	0.50	0.80	0.70	0.50	0.30	4.70
1969	0.30	0.30	0.30	0.10	0.20	0.30	0.30	0.40	0.30	0.70	0.60	0.50	4.90
1970	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.50	0.40	0.50	0.50	0.40	4.30
1971	0.30	0.30	0.30	0.30	0.40	0.30	0.30	0.30	0.40	0.30	0.30	0.20	3.40
1972	0.20	0.20	0.20	0.20	0.30	0.30	0.30	0.30	0.40	0.40	0.30	0.20	3.20
1973	0.20	0.10	0.10	0.20	0.10	0.20	0.20	0.30	0.40	0.40	0.30	0.30	2.80
MEDIA	0.36	0.26	0.25	0.24	0.34	0.42	0.51	0.61	0.74	0.73	0.59	0.44	
PORCENTAJE	6.53	4.76	4.49	4.36	6.27	7.73	9.24	11.07	13.47	13.29	10.80	8.00	
COEFICIENTE	0.76	0.57	0.53	0.54	0.73	0.96	1.07	1.28	1.67	1.54	1.34	0.93	

REGIMEN : MESES CON COEFICIENTE MAYOR O IGUAL A 1

MEDIA MENSUAL = **0.46**

CARACTERISTICAS ANUALES
MEDIA= **5.49**
VARIANCIA = 4.4 DESVIACION STANDARD = 2.10
INDICE VARIABILIDAD = 0.264
FLUCTUACION STANDARD (F) = 3.05
COEFICIENTE DE FLUCTUACION = 0.556
COEFICIENTE DE FLUCTUACION EN PORCIENTO = 55.6

RIO CARRIZALES EN GUARAGE AREA: 35 KM2 VOLUMENES EN MILL. M3

PERIODO DE REGISTROS 1933 - 1973

	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC	ANUAL
1933	7.70	6.00	5.70	4.90	4.80	4.30	4.60	4.50	5.00	4.60	3.30	2.20	57.60
1934	1.70	1.50	1.30	1.00	1.40	1.20	1.60	1.60	1.90	2.40	1.50	1.20	17.90
1935	0.90	0.60	0.50	0.80	2.00	1.20	1.20	2.70	1.60	2.40	2.20	1.50	17.80
1936	1.00	0.80	0.70	1.20	4.00	4.60	5.40	3.50	3.00	3.10	3.10	2.00	32.40
1937	2.10	1.10	1.00	0.50	1.50	1.70	1.50	3.80	2.30	2.40	2.60	2.00	23.30
1938	1.20	0.90	0.80	0.70	1.30	2.50	2.50	3.40	5.30	3.90	4.00	2.60	29.10
1939	1.60	1.10	1.00	0.90	0.50	1.20	1.40	1.40	1.70	2.00	1.70	1.10	16.90
1940	0.80	0.50	0.60	0.70	0.70	1.50	1.50	2.50	2.20	2.30	1.60	1.30	16.30
1941	1.00	0.70	0.60	0.60	2.80	1.40	1.80	1.60	2.00	1.70	1.20	0.90	16.30
1942	0.70	0.50	0.50	1.70	1.60	2.20	2.30	2.70	3.50	3.00	2.60	2.20	23.50
1943	1.40	1.10	1.00	1.40	3.00	2.30	3.90	3.70	4.90	3.90	2.70	1.70	31.00
1944	1.30	1.00	0.30	0.80	1.60	2.10	1.70	3.50	5.40	2.70	2.30	1.50	24.80
1945	1.10	0.80	0.80	1.30	1.60	3.50	3.90	4.10	5.30	3.20	2.10	1.90	29.40
1946	1.20	0.90	0.30	1.50	2.00	1.60	1.50	3.30	4.10	5.10	2.90	2.30	27.60
1947	1.40	1.00	0.50	0.70	0.80	1.40	2.50	2.50	2.10	2.20	1.60	1.10	18.20
1948	0.90	0.70	0.50	0.70	1.60	2.00	2.30	3.00	2.60	2.20	2.10	1.40	20.10
1949	1.00	0.70	0.30	0.60	0.90	1.20	1.40	1.70	1.50	1.60	3.10	1.30	15.80
1950	0.90	0.90	0.50	0.70	1.30	1.60	1.90	3.50	2.40	2.80	4.90	3.00	24.30
1951	1.60	1.50	1.00	1.20	2.00	2.50	2.90	2.50	2.90	2.90	2.10	1.50	24.90
1952	1.10	0.80	0.90	1.70	1.40	2.00	2.40	3.60	4.90	2.70	1.90	1.40	23.70
1953	1.00	0.90	0.70	0.50	0.20	2.10	2.60	3.40	3.00	3.00	2.20	1.40	21.20
1954	1.10	0.60	0.70	1.10	1.40	3.10	3.30	3.00	3.10	6.10	4.30	2.30	30.30
1955	1.50	1.10	1.00	1.30	1.10	1.70	1.90	1.90	1.80	3.20	2.20	2.10	20.70
1956	1.30	0.90	0.90	1.00	1.10	1.40	1.60	1.60	2.20	1.90	1.70	1.20	16.90
1957	0.90	0.90	0.60	0.60	0.70	0.90	0.90	1.00	1.50	1.00	1.00	0.60	10.60
1958	0.50	0.40	0.30	0.50	1.70	1.70	1.30	2.30	2.50	2.80	1.70	1.20	17.00
1959	0.90	0.60	0.60	0.50	1.20	1.30	1.50	1.60	2.10	3.20	1.50	1.60	17.40
1960	1.10	0.50	0.70	1.20	1.70	1.50	2.50	2.70	3.80	3.20	2.60	2.10	23.90
1961	1.30	0.90	0.80	0.70	0.70	1.00	2.10	2.60	1.90	2.00	1.50	1.30	17.20
1962	0.90	0.70	0.60	0.50	3.10	2.30	3.20	2.90	2.70	2.40	1.60	1.20	22.00
1963	0.90	0.70	0.70	0.90	1.90	2.60	2.00	3.50	8.00	4.50	3.10	1.90	30.70
1964	1.20	1.00	0.90	0.90	1.10	1.40	2.10	2.20	2.20	3.90	2.10	1.30	20.40
1965	1.00	0.70	0.70	0.50	1.20	1.70	2.00	3.20	3.30	2.60	2.50	1.60	21.00
1966	1.30	0.80	0.80	0.70	1.20	4.00	3.10	3.20	3.30	3.60	2.30	3.50	27.80
1967	1.60	1.10	1.00	1.50	1.50	2.10	2.80	2.70	4.10	3.40	2.30	1.70	25.80
1968	1.20	0.90	0.80	1.10	1.30	1.60	1.20	2.40	3.10	2.70	1.70	1.20	19.20
1969	0.90	0.70	0.60	0.50	0.70	1.00	1.20	2.00	1.30	3.20	2.50	1.60	16.20
1970	1.10	0.90	0.70	0.70	1.30	1.30	1.60	2.30	2.50	1.90	1.80	1.70	17.70
1971	1.00	0.90	0.70	1.10	1.80	1.10	1.50	1.10	1.70	1.40	1.20	0.90	14.30
1972	0.70	0.50	0.90	0.60	1.50	0.90	1.50	1.30	1.90	1.40	1.00	0.70	12.90
1973	0.60	0.50	0.40	0.90	0.60	1.00	0.80	1.70	1.80	1.60	1.20	1.10	12.10
MEDIA	1.28	0.96	0.87	1.01	1.57	1.90	2.20	2.61	2.98	2.85	2.25	1.61	
PORCENTAJE	5.82	4.35	3.95	4.59	7.09	8.57	9.94	11.81	13.50	12.90	10.17	7.31	
COEFICIENTE	0.67	0.51	0.46	0.57	0.83	1.06	1.15	1.37	1.57	1.49	1.26	0.85	

REGIMEN : MESES CON COEFICIENTE MAYOR O IGUAL A 1

MEDIA MENSUAL = 1.84

CARACTERISTICAS ANUALES

MEDIA= 22.10

VARIANCIA = 63.3   DESVIACION STANDARD = 7.95

INDICE VARIABILIDAD = 0.252

FLUCTUACION STANDARD (F) = 12.02

COEFICIENTE DE FLUCTUACION = 0.544

COEFICIENTE DE FLUCTUACION EN PORCIENTO = 54.4

RIO CARRIZALES EN SAEZ AREA:123 KM2 VOLUMENES EN MILL. M3
PERIODO DE REGISTROS 1933 - 1973

	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC	ANUAL
1933	10.00	7.70	7.40	6.60	6.90	6.30	7.20	6.90	7.70	6.20	4.40	2.90	80.10
1934	2.20	1.60	1.50	1.30	2.40	1.90	2.70	2.70	2.90	4.00	2.00	1.60	26.80
1935	1.10	0.80	0.70	1.30	3.90	1.90	1.90	4.60	2.10	3.90	3.20	2.00	27.40
1936	1.20	0.90	1.00	1.50	7.10	6.50	7.60	4.50	4.20	4.50	4.30	2.60	46.70
1937	2.50	1.40	1.20	1.20	2.70	2.70	2.80	5.90	3.30	3.50	3.80	2.70	34.10
1938	1.50	1.10	1.00	1.00	2.40	4.40	4.00	5.20	7.60	5.20	5.50	3.30	42.20
1939	2.00	1.40	1.20	1.10	1.40	2.00	2.30	2.30	2.90	4.50	2.30	1.30	24.70
1940	1.00	0.80	0.30	1.00	1.10	3.00	2.60	4.30	3.30	3.30	2.00	1.00	24.20
1941	1.20	0.70	0.90	0.70	5.30	2.10	2.90	2.50	3.10	2.50	1.60	1.20	24.70
1942	0.90	0.70	0.60	3.50	2.60	3.70	2.60	4.10	5.10	4.10	3.60	3.20	35.70
1943	1.80	1.40	1.40	2.50	5.10	3.40	5.50	5.10	7.00	5.30	3.40	2.10	44.40
1944	1.60	1.20	1.10	1.20	2.70	3.60	2.40	5.70	7.90	3.30	3.20	1.90	35.70
1945	1.40	1.00	0.90	2.20	2.70	6.20	5.20	6.00	7.20	4.30	2.60	2.30	41.90
1946	1.50	1.10	1.00	2.70	3.50	2.20	3.00	5.20	5.80	7.50	3.50	3.20	40.20
1947	1.70	1.20	1.10	0.50	1.20	2.40	4.30	3.80	3.00	3.40	1.20	1.30	26.20
1948	1.00	0.90	0.70	1.00	2.00	3.50	2.80	4.60	3.70	2.90	2.90	1.70	29.60
1949	1.20	0.90	1.10	0.70	1.50	2.30	2.50	2.70	2.40	2.60	4.60	1.70	24.20
1950	1.10	1.00	0.30	1.20	2.40	2.90	3.10	5.60	3.30	4.00	6.90	3.70	35.90
1951	1.90	2.10	1.30	2.00	3.30	4.10	4.40	4.20	4.10	4.00	2.80	2.00	36.20
1952	1.40	1.00	1.00	3.10	2.10	2.40	3.70	3.90	7.20	3.40	2.50	1.70	34.40
1953	1.30	0.90	0.90	1.10	4.10	2.40	4.20	5.20	4.10	4.40	2.70	1.80	34.10
1954	1.30	1.00	0.90	1.80	2.50	5.60	4.80	4.10	4.50	9.00	5.60	2.80	43.90
1955	1.90	1.30	1.30	2.10	1.60	2.50	2.90	3.00	2.90	4.90	4.00	3.10	30.90
1956	1.70	1.10	1.00	1.50	1.90	2.40	2.80	2.60	3.60	2.60	2.30	1.70	25.20
1957	1.10	0.90	0.70	0.80	1.10	1.50	1.50	1.70	2.80	1.40	1.60	0.70	15.80
1958	0.60	0.40	0.40	1.00	3.60	3.10	2.00	3.90	3.70	4.10	2.30	1.40	26.50
1959	1.10	0.80	0.80	0.70	2.30	2.20	3.40	2.60	3.30	5.00	2.50	2.10	26.80
1960	1.40	1.00	0.90	2.00	3.10	2.30	4.10	4.10	5.90	4.40	3.40	2.50	35.40
1961	1.60	1.10	1.00	0.80	1.00	1.70	3.90	4.20	2.70	3.00	2.70	1.60	25.30
1962	1.10	0.80	0.90	0.70	6.10	3.50	4.80	4.10	3.80	3.50	2.00	1.50	32.70
1963	1.20	0.90	0.90	1.40	3.50	4.40	2.50	5.30	11.30	5.40	4.90	2.40	44.50
1964	1.70	1.20	1.10	1.30	1.60	2.40	3.40	3.50	3.40	5.50	3.00	1.50	29.80
1965	1.30	0.90	0.90	0.70	2.40	3.10	3.40	5.20	4.80	3.40	3.50	2.10	31.60
1966	1.60	1.00	1.00	0.90	2.10	6.90	4.60	4.60	4.70	5.30	3.00	5.00	40.70
1967	2.00	1.30	1.20	2.40	2.40	3.60	4.30	4.10	6.30	4.70	3.00	2.20	37.50
1968	1.50	1.10	1.00	1.80	2.10	2.60	1.70	4.30	4.80	3.70	2.20	1.40	28.20
1969	1.10	0.90	0.80	0.60	1.20	1.70	2.00	3.60	1.90	5.40	3.60	2.10	24.80
1970	1.30	0.90	0.90	0.90	2.40	2.10	2.60	3.30	3.60	2.80	2.50	2.30	25.10
1971	1.30	1.10	0.90	1.90	3.20	1.50	2.30	1.60	2.80	2.10	1.70	1.10	21.50
1972	0.90	0.90	1.20	0.90	2.70	1.50	2.80	2.10	3.30	2.00	1.30	0.90	20.40
1973	0.70	0.60	0.50	1.50	1.00	2.00	1.30	3.30	2.10	2.40	1.80	1.60	18.80
MEDIA	1.62	1.19	1.11	1.56	2.81	3.15	3.45	4.06	4.41	4.11	3.04	2.09	
PORCENTAJE	4.96	3.64	3.40	4.77	8.63	9.67	10.59	12.46	13.54	12.60	9.32	6.40	
COEFICIENTE	0.57	0.51	0.39	0.55	1.00	1.20	1.27	1.44	1.68	1.46	1.16	0.74	

REGIMEN : MESES CON COEFICIENTE MAYOR O IGUAL A 1

MEDIA MENSUAL = 2.72

CARACTERISTICAS ANUALES
MEDIA = 32.60
VARIANCIA = 114.4 DESVIACION STANDARD = 10.75
INDICE VARIABILIDAD = 0.335
FLUCTUACION STANDARD (F) = 16.47
COEFICIENTE DE FLUCTUACION = 0.505
COEFICIENTE DE FLUCTUACION EN PORCIENTO = 50.5

RIO CARRIZALES EN LOS SAVANES AREA:334 KM2 VOLUMENES EN MILL. M3
PERIODO DE REGISTROS 1933 - 1973

	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC	ANUAL
1933	11.00	8.60	9.20	7.40	7.50	7.20	8.40	7.80	9.90	7.00	4.90	3.20	90.50
1934	2.40	1.30	1.60	1.50	2.90	2.70	3.20	3.20	3.40	4.70	2.30	1.80	31.00
1935	1.20	0.90	0.80	1.50	4.70	2.20	2.20	5.50	2.30	4.60	3.60	2.30	31.80
1936	1.40	1.20	1.10	2.30	8.50	8.00	8.50	5.00	4.70	5.10	4.90	2.80	53.30
1937	3.30	1.50	1.30	1.30	3.20	3.20	3.70	6.80	3.70	3.90	4.40	3.10	39.00
1938	1.60	1.20	1.10	1.20	2.50	5.30	4.70	6.00	8.70	5.80	6.20	3.70	48.30
1939	2.20	1.50	1.30	1.30	1.50	2.30	2.70	2.70	3.40	5.30	2.60	1.50	28.30
1940	1.10	0.60	0.90	1.30	1.30	3.60	3.10	5.20	3.80	3.90	2.50	2.00	29.40
1941	1.30	0.50	0.50	0.80	6.30	2.40	3.40	3.00	3.60	2.90	1.80	1.30	28.50
1942	1.00	0.70	0.70	4.70	3.00	4.40	4.10	4.80	5.80	4.60	4.00	3.60	41.00
1943	1.90	1.60	1.50	2.50	6.00	3.90	6.50	5.70	8.00	6.00	3.80	2.30	50.50
1944	1.70	1.20	1.20	1.40	3.20	4.70	2.50	6.70	8.90	3.60	3.70	2.10	40.90
1945	1.50	1.10	1.00	2.70	3.20	7.40	5.50	6.90	8.10	4.80	2.80	2.60	48.00
1946	1.70	1.20	1.10	3.20	4.10	7.40	3.50	6.10	6.50	8.60	2.90	3.70	46.10
1947	1.90	1.30	1.20	1.00	1.40	2.50	5.10	4.50	3.50	3.90	2.10	1.50	30.30
1948	1.10	0.90	0.90	1.20	3.60	4.20	4.50	5.30	4.20	3.20	3.20	1.90	34.10
1949	1.40	1.00	1.20	0.80	1.70	2.70	3.00	3.20	2.90	3.00	5.20	1.90	27.90
1950	1.20	1.20	0.90	1.40	2.90	3.40	3.70	4.60	3.70	4.60	7.80	4.10	41.40
1951	3.10	2.50	1.40	2.30	3.50	4.90	5.10	4.80	4.70	4.50	3.10	2.20	41.50
1952	1.50	1.10	1.10	2.70	2.50	4.10	4.40	4.50	8.10	3.70	2.90	1.90	39.40
1953	1.40	1.00	1.00	1.30	5.00	4.90	4.50	6.10	4.60	5.00	3.00	1.90	39.20
1954	1.40	1.10	1.00	2.20	2.50	6.80	5.50	4.70	5.10	10.30	6.10	3.10	50.20
1955	2.10	1.40	1.40	2.40	1.80	3.40	3.30	3.50	3.40	5.70	3.40	3.50	35.30
1956	1.80	1.20	1.10	1.80	2.30	2.80	3.30	3.00	4.20	2.90	2.60	1.50	28.80
1957	1.20	0.90	0.90	0.50	1.20	1.50	1.90	2.00	3.30	1.60	1.80	0.80	18.20
1958	0.60	0.50	0.40	1.20	4.40	3.30	2.30	4.50	4.20	4.70	2.60	1.50	30.80
1959	1.20	0.90	0.90	0.70	2.80	2.60	4.10	3.00	3.90	5.80	2.80	2.30	30.80
1960	1.60	1.10	0.90	2.40	3.70	2.60	4.50	4.70	6.90	4.90	3.80	3.10	40.60
1961	1.70	1.20	1.10	0.90	1.10	2.00	4.80	4.90	3.10	3.50	3.00	1.70	29.00
1962	1.20	0.90	0.90	0.70	7.40	4.10	5.50	4.60	4.30	4.00	2.20	1.60	37.40
1963	1.30	0.90	0.90	1.70	4.30	5.20	3.30	6.20	12.80	7.20	4.40	2.60	50.80
1964	1.80	1.30	1.20	1.50	2.10	2.80	4.10	4.00	3.90	5.20	3.40	1.70	34.00
1965	1.40	1.00	0.90	0.70	2.50	3.80	4.90	6.10	5.50	3.80	4.00	2.30	36.40
1966	1.80	1.10	1.00	1.00	2.50	9.30	5.40	5.30	5.40	6.00	3.20	5.70	46.70
1967	2.20	1.50	1.40	2.80	2.90	4.30	5.00	4.70	7.30	5.30	3.30	2.40	43.00
1968	1.60	1.20	1.10	2.10	2.50	3.10	1.90	5.10	5.50	4.20	2.50	1.60	32.40
1969	1.20	0.90	0.80	0.70	1.40	2.10	2.40	4.30	2.10	6.30	4.10	2.30	28.60
1970	1.50	1.00	0.90	1.00	2.50	2.50	3.10	4.50	4.10	3.10	2.90	2.60	30.10
1971	1.40	1.30	1.00	2.30	3.50	1.70	2.70	1.80	3.40	2.40	1.50	1.20	24.90
1972	0.90	0.90	1.40	1.10	3.20	1.70	3.40	2.50	4.00	2.20	1.50	1.00	23.80
1973	0.80	0.60	0.60	1.50	1.10	2.50	1.50	4.00	3.70	2.80	2.00	1.80	23.30
MEDIA	1.77	1.32	1.21	1.82	3.33	3.74	4.04	4.73	5.06	4.67	3.42	2.34	
PORCENTAJE	4.73	3.52	3.24	4.86	8.90	9.98	10.79	12.63	13.51	12.47	9.12	6.25	
COEFICIENTE	0.55	0.42	0.37	0.60	1.07	1.24	1.35	1.46	1.58	1.44	1.13	0.72	

REGIMEN : MESES CON COEFICIENTE MAYOR O IGUAL A 1

MEDIA MENSUAL = 3.12

CARACTERISTICAS ANUALES
MEDIA= 37.45
VARIANCIA = 146.3 DESVIACION STANDARD = 12.10
INDICE VARIABILIDAD = 0.320
FLUCTUACION STANDARD (F) = 18.72
COEFICIENTE DE FLUCTUACION = 0.500
COEFICIENTE DE FLUCTUACION EN PORCIENTO = 50.0

RIO CAPRIALES EN EL PATIO ACRAIDO NO2 VOLUMENES EN MILL. M3
PERIODO DE REGISTROS 1933 - 1973

	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SET	OCT	NOV	DIC	ANUAL
1933	15.40	12.00	11.50	10.10	10.40	9.40	10.70	10.10	11.40	9.50	6.70	4.40	121.60
1934	3.40	2.50	2.30	2.00	3.50	2.50	2.90	3.90	4.30	5.80	3.10	2.40	39.90
1935	1.70	1.20	1.20	1.90	5.40	2.80	2.90	6.70	3.20	5.80	4.80	3.10	40.70
1936	1.90	1.50	1.50	2.90	10.30	10.20	11.50	7.00	6.30	6.80	6.50	4.00	70.30
1937	4.40	2.20	1.00	1.90	3.50	4.00	4.20	9.90	5.00	5.20	5.70	4.20	51.30
1938	2.40	1.70	1.60	1.60	3.40	6.40	5.50	7.70	11.50	7.00	8.50	5.10	63.70
1939	3.10	2.10	1.90	1.90	2.00	2.50	3.30	3.40	4.20	5.70	3.60	2.10	37.10
1940	1.60	1.20	1.30	1.50	1.50	4.20	3.60	6.30	4.90	5.00	3.40	2.70	37.50
1941	1.90	1.30	1.20	1.10	7.40	3.10	4.30	3.70	4.60	3.80	2.50	1.80	36.70
1942	1.40	1.10	1.00	4.90	3.50	5.40	5.30	6.10	7.70	6.20	5.40	4.80	53.10
1943	2.90	2.10	2.20	3.60	7.40	5.10	8.80	7.70	10.50	8.10	5.30	3.30	66.90
1944	2.40	1.80	1.70	1.80	3.50	5.20	3.70	8.30	11.80	5.20	4.90	3.00	53.70
1945	2.20	1.50	1.50	3.20	3.50	9.50	5.00	9.00	11.00	6.60	4.00	3.60	63.50
1946	2.40	1.70	1.60	3.50	5.00	2.40	4.40	7.70	8.70	11.20	5.50	4.90	60.40
1947	2.70	1.00	1.70	1.40	1.50	3.50	6.20	5.70	4.60	5.10	3.00	2.10	35.70
1948	1.40	1.30	1.10	1.50	4.20	5.10	5.60	6.80	5.60	4.50	4.30	2.70	44.30
1949	1.90	1.40	1.60	1.10	2.10	2.20	2.60	4.00	3.50	3.80	6.80	2.60	35.60
1950	1.70	1.40	1.20	1.70	3.40	4.00	4.50	8.40	5.00	6.00	10.20	5.80	53.50
1951	3.00	3.30	2.00	2.00	4.80	6.00	6.60	6.30	6.20	6.00	4.20	3.10	54.30
1952	2.10	1.60	1.50	4.50	3.20	5.00	5.50	5.80	10.60	5.30	3.90	2.60	51.60
1953	2.00	1.50	1.40	1.70	5.50	5.00	6.10	7.80	6.20	6.60	4.20	2.70	51.10
1954	2.10	1.50	1.40	2.60	3.60	8.10	7.20	6.40	6.80	13.50	8.60	4.40	66.20
1955	3.00	2.10	2.00	3.10	2.40	4.20	4.20	4.40	4.20	7.20	4.60	4.60	46.00
1956	2.60	1.70	1.50	2.20	2.70	3.40	4.20	3.80	5.30	3.90	3.50	2.50	37.30
1957	1.70	1.30	1.10	1.20	1.60	2.20	2.20	3.40	3.90	2.10	2.40	1.10	23.10
1958	0.80	0.70	0.60	1.40	5.00	4.50	3.00	5.60	5.60	6.10	3.60	2.20	39.20
1959	1.70	1.20	1.20	1.00	3.30	3.20	4.50	3.80	4.80	7.30	3.90	3.20	39.50
1960	2.20	1.50	1.30	2.80	4.50	3.30	6.00	6.10	8.70	6.70	5.20	4.30	52.70
1961	2.50	1.80	1.60	1.20	1.50	2.40	5.60	4.20	4.10	4.50	4.00	2.40	37.90
1962	1.80	1.30	1.30	1.10	8.60	5.20	7.10	6.10	5.80	5.20	3.20	2.30	49.10
1963	1.80	1.40	1.30	2.10	5.10	6.40	4.30	7.50	17.00	9.60	6.20	3.70	66.80
1964	2.40	1.30	1.70	1.50	2.60	2.50	5.00	5.10	5.00	8.30	4.50	2.40	44.50
1965	1.90	1.40	1.30	1.10	3.30	4.50	4.90	7.70	7.20	5.30	5.30	3.20	47.10
1966	2.50	1.60	1.50	1.30	3.00	10.00	6.50	7.00	7.10	7.90	4.60	7.60	61.00
1967	3.20	2.10	1.90	3.50	2.70	5.20	6.30	6.10	9.30	7.20	4.60	3.40	56.60
1968	2.30	1.70	1.60	2.60	3.10	3.90	2.60	6.20	7.10	5.70	3.50	2.20	42.40
1969	1.70	1.30	1.20	1.00	1.80	2.50	2.50	5.10	2.80	7.80	5.40	3.20	36.70
1970	2.10	1.50	1.40	1.30	3.40	3.00	3.90	5.60	5.40	4.00	4.00	3.50	39.10
1971	2.00	1.80	1.40	2.80	4.60	2.30	3.40	2.40	4.10	3.20	2.50	1.70	32.20
1972	1.30	1.20	1.80	1.40	3.80	2.20	4.00	3.10	4.80	3.00	2.10	1.40	30.10
1973	1.10	0.90	0.90	2.20	1.40	2.90	1.80	4.60	4.40	3.60	2.60	2.30	28.60
MEDIA	2.51	1.86	1.73	2.31	4.05	4.60	5.10	6.02	6.59	6.18	4.66	3.23	
PORCENTAJE	5.14	3.81	3.54	4.73	8.30	9.42	10.45	12.32	13.49	12.64	9.53	6.62	
COEFICIENTE	0.60	0.53	0.41	0.55	0.99	1.13	1.21	1.43	1.67	1.46	1.15	0.77	

REGIMEN : MESES CON COEFICIENTE MAYOR O IGUAL A 1

MEDIA MENSUAL = 4.07

CARACTERISTICAS ANUALES
MEDIA= 48.84
VARIANCIA = 272.4 DESVIACION STANDARD = 16.50
INDICE VARIABILIDAD = 0.339
FLUCTUACION STANDARD (F) = 25.13
COEFICIENTE DE FLUCTUACION = 0.514
COEFICIENTE DE FLUCTUACION EN PORCIENTO = 51.4

ANEXO 5-A

RIO CABRIALES AT PAITO YEAR 1933 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	4.0	5.3	4.5	3.9	6.9	2.9	2.7	3.0	2.7	3.3	2.5	1.9
2	6.2	5.2	4.5	3.8	3.4	8.5	5.4	2.8	2.6	3.2	2.5	1.8
3	6.2	5.2	5.1	3.9	4.1	3.0	2.6	4.9	2.5	3.2	2.6	1.8
4	6.2	5.2	4.8	3.8	7.5	5.4	3.4	3.1	3.0	4.3	6.5	1.8
5	6.1	5.2	4.6	3.8	3.3	4.9	2.5	2.5	3.0	3.2	4.3	1.8
6	6.1	5.1	4.4	3.8	3.3	2.9	2.9	2.5	5.8	3.0	2.8	1.7
7	6.1	5.1	4.4	3.7	3.2	3.2	2.5	6.4	2.7	3.0	2.6	1.7
8	6.0	5.1	4.4	3.7	3.2	4.5	2.5	3.1	2.5	2.9	2.5	1.7
9	6.0	5.0	4.3	3.7	3.2	4.2	2.5	2.7	3.6	2.8	2.5	1.7
10	5.9	5.0	4.3	3.7	3.5	4.0	2.4	2.6	2.5	2.9	3.4	1.9
11	5.9	5.0	4.3	3.7	4.4	3.0	10.4	6.0	10.7	4.9	2.5	1.6
12	5.9	5.0	4.3	3.7	3.2	2.8	2.7	2.7	3.2	9.0	2.4	1.6
13	5.8	4.9	4.3	3.6	3.1	2.9	2.5	2.5	3.0	5.2	2.4	1.6
14	5.8	4.9	4.2	3.6	3.1	2.8	3.5	5.3	3.6	3.4	2.3	1.6
15	5.8	4.9	4.2	3.6	3.1	2.7	3.9	2.6	3.1	3.2	3.0	1.6
16	5.8	4.8	4.2	3.6	3.1	2.7	3.3	2.5	4.6	3.1	2.4	1.6
17	5.7	4.8	4.2	3.6	3.1	3.8	4.2	2.5	2.9	3.0	2.3	2.1
18	5.7	4.8	4.2	3.5	3.1	2.7	2.6	8.3	7.6	5.2	2.2	1.7
19	5.7	4.8	4.1	3.5	3.0	2.7	3.7	4.0	3.0	3.4	2.2	1.5
20	5.6	4.8	4.1	3.5	3.0	4.6	9.8	3.1	6.9	4.3	2.1	1.5
21	5.6	4.7	4.1	3.8	6.4	2.7	5.5	4.5	3.6	3.0	2.1	1.5
22	5.6	4.7	4.1	5.6	8.2	2.6	4.8	2.6	8.3	2.9	2.1	1.5
23	5.5	4.7	4.0	6.8	3.1	2.6	6.4	2.5	5.1	2.8	2.3	1.5
24	5.5	4.7	4.0	4.7	3.0	2.6	6.7	2.5	3.3	2.8	2.1	1.5
25	5.5	4.6	4.0	4.3	3.0	2.6	2.9	7.9	4.3	2.7	2.0	1.4
26	5.4	4.6	4.0	3.4	4.3	3.0	2.6	2.7	5.7	4.6	2.0	1.4
27	5.4	4.6	4.0	3.4	3.9	2.6	2.6	2.6	6.2	3.1	2.0	1.4
28	5.4	4.6	3.9	3.4	3.0	6.2	2.5	2.5	7.6	2.7	1.9	1.4
29	5.4		3.9	3.4	4.6	3.5	2.5	7.0	4.0	2.7	1.9	1.4
30	5.3		3.9	3.3	2.9	2.6	2.5	3.8	3.5	2.6	1.9	1.4
31	5.3		3.9		2.5		7.4	3.6		2.5		1.3
SIMULATION												
MEAN	5.7	4.9	4.3	3.9	3.9	3.6	4.0	3.9	4.4	3.6	2.6	1.7
VOL	15.4	12.0	11.5	10.1	10.4	9.4	10.7	10.1	11.4	9.5	6.7	4.4
MAX	6.3	5.3	5.2	6.9	8.3	8.6	10.4	8.4	10.7	9.0	6.5	2.1
MIN	4.0	4.6	3.9	3.4	2.9	2.7	2.5	2.5	2.5	2.6	1.9	1.4

ANNUAL MEAN 3.8 VOLUME 121.7 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 28.2 C.M.S., ON SEPTEMBER 11 AT 13

CHANNEL WATER BALANCE -0.1 M. CM. IN 121.7 INIT 0.0 FINL 0.1 OUT 121.7

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1934 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	1.4	1.1	0.9	0.7	0.6	0.7	0.6	0.6	3.2	0.8	1.1	1.2
2	1.3	1.1	0.9	0.7	1.4	1.8	0.9	0.6	2.4	1.3	1.1	0.9
3	1.3	1.1	0.9	0.7	0.7	0.8	0.7	0.7	0.8	0.9	1.1	0.9
4	1.3	1.0	0.9	0.7	0.6	0.6	5.3	0.7	3.6	0.8	1.0	0.9
5	1.3	1.0	0.9	0.7	0.6	0.6	1.2	2.4	3.2	0.8	1.0	0.8
6	1.3	1.0	0.9	0.7	0.6	0.6	7.1	1.4	0.9	0.8	1.0	0.8
7	1.3	1.0	0.9	0.7	0.6	0.6	1.7	0.7	0.8	0.8	1.0	0.8
8	1.3	1.0	0.9	1.8	0.6	0.6	0.7	3.3	1.9	0.8	1.0	0.8
9	1.8	1.0	0.8	0.8	0.6	0.6	0.7	1.1	3.1	0.8	1.6	0.8
10	1.4	1.0	0.8	0.7	0.6	0.6	0.8	0.7	0.9	0.7	1.3	0.8
11	1.2	1.0	0.8	0.7	0.6	0.6	1.3	0.6	0.8	0.7	1.0	0.8
12	1.2	1.0	0.8	0.7	0.6	0.6	0.9	1.1	0.8	0.7	0.9	0.8
13	1.2	1.0	0.8	0.7	3.0	0.6	0.7	0.7	0.8	10.9	0.9	0.8
14	1.2	1.0	0.8	0.7	0.7	0.6	0.7	0.6	0.8	3.3	0.9	0.8
15	1.2	1.0	0.8	0.7	3.4	0.6	0.7	0.6	2.8	1.1	0.9	1.1
16	1.2	1.0	0.8	0.7	5.2	0.6	0.7	0.6	1.8	5.5	0.9	0.8
17	1.2	1.0	0.8	0.7	1.7	1.8	0.6	0.6	0.8	2.0	0.9	0.7
18	1.2	1.0	0.8	0.7	0.7	0.8	0.6	1.7	0.8	1.1	0.9	0.7
19	1.2	0.9	0.8	0.7	0.7	0.6	0.6	1.4	0.8	3.1	0.9	0.7
20	1.2	0.9	0.8	0.7	0.7	0.6	5.3	0.7	0.8	12.4	0.8	0.7
21	1.1	0.9	0.8	0.7	0.6	0.6	1.4	0.6	0.8	2.9	0.8	0.7
22	1.1	0.9	0.8	0.7	0.6	0.6	3.2	1.6	0.8	1.8	1.2	0.7
23	1.1	0.9	0.8	0.7	0.6	0.6	1.1	0.8	0.8	1.8	1.0	0.7
24	1.1	0.9	0.8	0.7	0.6	5.6	0.7	0.7	0.7	1.5	0.8	0.7
25	1.1	0.9	0.8	0.7	0.6	2.4	0.9	0.8	0.7	1.3	0.8	0.7
26	1.1	0.9	0.8	0.7	1.6	2.3	0.8	7.7	4.0	1.3	1.0	0.7
27	1.1	0.9	0.8	0.9	7.1	1.3	0.7	1.2	1.2	1.2	1.9	0.7
28	1.1	0.9	0.8	0.7	0.8	1.1	0.7	0.7	3.2	1.2	3.1	2.3
29	1.1		0.8	0.6	0.7	0.6	0.7	0.7	2.5	1.2	1.0	1.6
30	1.1		0.7	0.6	0.7	0.6	0.7	5.0	0.9	1.1	2.5	0.7
31	1.1		0.7		0.7		0.7	2.4		1.1		0.7
SIMULATION												
MEAN	1.3	1.0	0.9	0.8	1.3	1.1	1.5	1.4	1.6	2.2	1.2	0.9
VOL	3.4	2.5	2.3	2.0	3.5	2.8	3.9	3.9	4.3	5.8	3.1	2.4
MAX	1.8	1.1	0.9	1.8	7.2	5.6	7.1	7.7	4.1	12.5	3.2	2.4
MIN	1.1	0.9	0.8	0.7	0.7	0.6	0.7	0.7	0.8	0.8	0.9	0.7

ANNUAL MEAN 1.3 VOLUME 40.0 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 42.7 C.M.S., ON OCTOBER 20 AT 15

CHANNEL WATER BALANCE -0.0 M. CM. IN 39.9 INIT 0.1 FINL 0.0 OUT 40.0

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1935 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.7	0.5	0.4	0.3	0.3	0.6	0.6	0.6	1.3	3.7	1.5	1.1
2	0.7	0.5	0.4	0.3	0.3	0.6	0.6	0.6	1.1	1.5	9.1	1.1
3	0.7	0.5	0.4	0.3	0.3	0.6	1.3	0.6	1.1	0.9	1.8	1.1
4	0.7	0.5	0.4	0.3	0.3	1.0	0.9	1.4	1.1	0.9	1.5	4.8
5	0.6	0.5	0.4	0.3	1.3	4.4	0.8	0.7	1.1	0.9	1.4	2.1
6	0.6	0.5	0.4	0.3	0.5	1.1	1.1	0.6	1.1	4.1	1.4	1.2
7	0.6	0.5	0.4	0.3	7.0	0.7	1.3	5.5	1.0	1.2	1.3	1.1
8	0.6	0.5	0.4	0.3	1.6	0.6	0.8	1.4	1.2	0.9	1.3	1.1
9	0.6	0.5	0.4	0.3	0.4	0.6	0.6	0.7	1.0	0.9	1.7	1.1
10	0.6	0.5	0.4	0.3	7.0	0.6	1.1	0.6	4.3	4.2	1.5	1.1
11	0.6	0.5	0.4	0.3	5.3	0.6	0.8	0.6	1.2	1.2	1.4	1.0
12	0.5	0.5	0.4	0.3	0.6	0.6	0.8	22.0	2.7	1.0	3.7	1.0
13	0.6	0.5	0.4	0.3	2.6	0.6	0.7	7.3	1.3	0.9	1.3	1.0
14	0.5	0.5	0.4	0.3	1.1	0.6	1.0	3.0	1.1	0.9	1.3	1.0
15	0.6	0.5	0.4	0.3	0.5	0.6	1.2	2.1	1.1	0.9	1.3	1.0
16	0.6	0.5	0.4	0.3	10.0	1.6	3.4	1.6	1.0	4.1	1.2	1.0
17	0.6	0.5	0.4	0.3	3.0	1.5	1.1	1.4	1.0	7.2	1.2	0.9
18	0.6	0.5	0.4	0.3	0.7	0.7	0.6	2.4	1.0	1.4	1.2	0.9
19	0.6	0.4	0.4	0.3	0.6	1.4	0.6	1.8	1.0	1.2	1.2	0.9
20	0.6	0.4	0.4	0.3	0.6	0.7	0.7	1.5	1.0	6.2	1.1	0.9
21	0.5	0.4	0.4	0.3	0.6	0.6	0.6	1.7	1.0	2.1	1.1	0.9
22	0.6	0.4	0.4	0.3	0.5	0.6	0.6	2.1	1.0	2.3	1.1	0.9
23	0.5	0.4	0.4	0.4	2.0	1.4	1.2	1.3	0.9	1.3	1.1	0.9
24	0.5	0.4	0.4	1.9	0.7	1.4	1.5	1.2	0.9	1.3	1.1	0.9
25	0.5	0.4	0.4	0.4	1.9	0.7	0.6	1.3	0.9	4.2	1.1	0.9
26	0.5	0.4	0.4	0.3	0.6	2.1	0.6	4.2	0.9	1.5	1.0	0.8
27	0.5	0.4	0.4	6.8	2.5	1.5	1.5	1.3	0.9	1.5	1.0	0.8
28	0.5	0.4	0.4	2.5	0.7	1.9	2.3	1.2	0.9	2.6	1.0	0.8
29	0.5		0.4	0.6	5.3	0.8	0.8	1.2	0.9	1.7	6.0	0.8
30	0.5		0.3	0.4	1.7	0.8	1.2	1.1	0.9	1.3	2.0	0.8
31	0.5		0.3		0.7		0.8	3.0		1.2		0.8
SIMULATION												
MEAN	0.6	0.5	0.4	0.7	2.0	1.1	1.1	2.5	1.2	2.2	1.8	1.2
VOL	1.7	1.3	1.2	1.9	5.4	2.8	2.9	6.7	3.2	5.8	4.8	3.1
MAX	0.7	0.5	0.5	6.8	10.0	4.4	3.5	22.1	4.4	7.2	9.2	4.9
MIN	0.6	0.0	0.4	0.4	0.4	0.6	0.6	0.6	0.9	0.9	1.1	0.8

ANNUAL MEAN 1.3 VOLUME 40.8 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 40.2 C.M.S., ON MAY 16 AT 19
CHANNEL WATER BALANCE 0.0 M. CM. IN 40.8 INIT 0.0 FINL 0.1 OUT 40.8
RESERVOIR SURFACES 0.0 M. CM.

RIO CABRIALES AT PAITO YEAR 1936 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.8	0.6	0.5	0.4	0.4	3.6	5.1	3.0	2.2	1.7	1.9	1.7
2	0.8	0.6	0.5	6.0	0.4	4.5	3.2	2.7	2.3	1.7	1.8	1.7
3	0.8	0.6	0.5	1.3	0.4	8.7	7.2	2.6	1.9	1.6	1.8	1.6
4	0.8	0.6	0.5	0.5	0.4	3.5	3.2	2.6	1.8	1.6	1.7	1.6
5	0.8	0.6	0.5	0.5	0.4	2.6	2.9	2.5	1.8	6.4	1.7	1.6
6	0.7	0.6	0.5	6.0	0.4	2.3	6.6	2.5	1.7	2.8	1.7	2.5
7	0.7	0.6	0.5	2.6	0.4	2.8	4.1	2.4	1.8	3.7	1.8	1.7
8	0.7	0.6	0.5	2.9	0.4	5.6	3.1	3.2	8.1	2.4	11.3	1.6
9	0.7	0.6	0.5	0.8	1.4	2.6	7.8	4.9	3.9	4.5	2.7	1.5
10	0.7	0.5	0.4	0.6	3.8	2.1	3.8	3.1	3.2	2.3	2.2	1.5
11	0.7	0.5	0.4	0.5	1.8	1.9	3.3	2.5	2.1	2.2	2.9	1.5
12	0.7	0.5	0.4	0.5	0.5	4.8	5.0	2.4	1.9	2.0	2.3	1.5
13	0.7	0.5	0.4	0.5	1.1	5.3	4.1	2.4	2.8	1.9	2.5	1.4
14	0.7	0.5	0.4	0.5	1.9	3.7	3.2	2.3	2.0	1.8	2.1	1.4
15	0.7	0.5	0.4	0.5	0.5	7.7	3.9	3.4	1.9	1.8	1.9	1.4
16	0.7	0.5	0.4	0.5	0.5	3.8	10.0	2.3	1.8	1.8	1.9	1.4
17	0.7	0.5	0.4	0.5	2.4	2.5	3.9	2.4	1.8	1.7	1.8	1.3
18	0.7	0.5	0.4	0.5	6.3	2.3	3.5	3.4	1.8	2.0	1.8	1.3
19	0.6	0.5	0.8	0.5	4.8	2.3	4.1	2.2	4.3	2.3	1.8	1.3
20	0.6	0.5	0.5	0.5	2.2	6.4	4.5	2.2	2.0	1.7	1.7	1.3
21	0.6	0.5	0.4	0.5	25.4	3.6	3.9	2.1	1.8	1.7	1.7	1.3
22	0.6	0.5	0.4	0.5	17.7	2.5	4.2	2.1	1.8	1.6	1.7	1.3
23	0.6	0.5	0.4	0.5	5.0	2.3	3.3	2.0	1.7	1.6	1.6	1.2
24	0.6	0.5	0.4	0.5	6.6	2.2	4.0	2.0	1.7	1.9	1.6	1.2
25	0.6	0.5	0.4	0.5	9.4	2.1	3.2	1.9	2.2	4.9	1.6	1.2
26	0.6	0.5	0.4	0.5	5.6	2.7	3.5	1.9	1.7	1.8	1.8	1.2
27	0.6	0.5	0.4	0.5	3.4	5.5	3.0	1.9	1.7	1.7	8.9	1.2
28	0.6	0.5	0.4	0.5	2.1	6.0	3.5	1.8	2.8	1.7	2.5	1.2
29	0.6	0.5	0.4	0.4	2.5	7.4	2.9	3.0	3.1	6.2	1.9	1.1
30	0.6		1.7	0.4	3.1	3.9	2.8	2.1	1.9	3.8	1.8	1.6
31	0.6		1.0		5.3		4.5	3.2		2.0		1.4
SIMULATION												
MEAN	0.7	0.6	0.5	1.1	3.8	4.0	4.3	2.6	2.4	2.5	2.5	1.5
VOL	1.9	1.5	1.5	2.8	10.2	10.3	11.5	7.0	6.3	6.8	6.5	4.0
MAX	0.8	0.6	1.7	6.1	25.5	8.8	10.0	5.0	8.2	6.5	11.4	2.6
MIN	0.6	0.5	0.5	0.5	0.5	2.0	2.8	1.9	1.7	1.7	1.6	1.2

ANNUAL MEAN 2.2 VOLUME 70.3 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 86.6 C.M.S., ON MAY 21 AT 15

CHANNEL WATER BALANCE 0.1 M. CM. IN 70.3 INIT 0.1 FINL 0.1 OUT 70.3

RESERVOIR SURFACES 0.0 M. CM.

RIO CABRIALES AT PAITO YEAR 1937 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	1.1	1.0	0.7	0.6	0.5	0.8	0.9	8.3	1.6	2.5	1.2	2.1
2	6.1	1.0	0.7	0.6	0.7	0.7	0.9	2.0	1.5	1.8	1.2	1.3
3	2.3	0.9	0.7	0.6	1.9	0.7	0.9	8.6	1.4	2.1	1.1	1.3
4	1.3	0.9	0.7	0.6	0.7	2.0	0.8	2.2	1.4	1.6	11.4	1.3
5	7.5	0.9	0.7	0.6	0.5	1.3	3.6	9.6	1.4	1.4	3.7	4.7
6	2.2	0.9	0.7	0.6	0.5	1.4	1.2	3.3	3.4	1.4	2.6	6.3
7	1.5	0.9	0.7	0.6	0.5	0.8	2.1	2.4	1.7	1.3	2.0	1.9
8	1.4	0.9	0.7	0.6	0.5	4.3	1.1	2.4	1.4	1.3	1.6	1.6
9	1.3	0.9	0.7	0.6	0.5	2.2	0.9	3.2	1.4	1.3	1.5	1.5
10	1.3	0.9	0.7	0.6	0.5	0.8	1.5	4.3	1.4	1.3	1.4	1.4
11	1.3	0.9	0.7	0.6	0.5	0.8	3.0	2.6	1.4	1.2	1.3	1.4
12	1.2	0.9	0.7	0.6	0.5	0.9	1.6	11.6	1.3	1.9	1.3	1.3
13	1.2	0.9	0.7	0.6	0.5	0.8	0.9	4.2	1.3	1.4	1.3	1.3
14	1.2	0.8	0.7	0.6	0.5	1.0	0.9	2.6	1.2	1.2	1.3	1.3
15	1.2	0.8	0.7	0.5	0.5	1.2	0.9	3.0	1.2	1.2	1.2	1.2
16	1.2	0.9	0.7	0.5	0.5	0.8	2.6	2.2	1.2	2.2	3.3	1.2
17	1.2	0.8	0.7	0.5	3.1	0.8	3.7	2.0	3.8	1.7	1.9	1.2
18	1.1	0.9	0.7	0.5	6.9	0.8	2.7	1.9	2.0	1.2	4.0	1.2
19	1.1	0.9	0.7	0.5	2.5	1.9	1.3	1.9	3.1	12.0	1.4	1.2
20	1.1	0.8	0.6	0.5	2.4	0.9	2.6	1.8	2.3	3.7	1.8	1.2
21	1.1	0.8	0.6	0.5	1.4	0.7	2.1	1.7	1.3	1.9	1.5	1.1
22	1.1	0.8	0.6	0.5	0.7	1.5	1.3	1.7	1.3	1.7	1.3	1.1
23	1.1	0.8	0.6	0.5	0.6	2.8	1.0	1.6	5.0	1.5	1.7	1.1
24	1.1	0.8	0.6	0.5	0.6	2.9	1.0	1.6	2.6	1.4	1.5	1.1
25	1.0	0.9	0.6	0.7	0.6	6.0	1.0	1.6	1.6	1.4	1.3	1.1
26	1.0	0.8	0.6	3.2	3.6	2.6	1.0	1.6	1.4	1.3	1.2	1.1
27	1.0	0.8	0.6	0.6	1.4	1.0	1.2	1.7	1.4	1.3	1.2	1.0
28	1.0	0.8	0.6	0.5	3.9	0.9	1.1	3.1	1.3	1.3	1.2	1.0
29	1.0		0.6	0.5	3.6	0.9	1.0	1.8	3.2	1.2	1.2	1.0
30	1.0		0.6	0.5	0.8	0.9	0.9	1.5	1.6	1.2	5.4	1.0
31	1.0		0.6		0.8		1.5	1.8		1.2		1.0
SIMULATION												
MEAN	1.6	0.9	0.7	0.7	1.4	1.6	1.6	3.3	1.9	1.9	2.2	1.6
VOL	4.4	2.2	1.9	1.8	3.9	4.0	4.2	8.8	5.0	5.2	5.7	4.2
MAX	7.5	1.0	0.8	3.3	6.9	6.1	3.8	11.7	5.0	12.0	11.5	6.3
MIN	1.0	0.8	0.7	0.6	0.6	0.8	0.9	1.6	1.3	1.2	1.2	1.0

ANNUAL MEAN 1.6 VOLUME 51.3 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 42.1 C.M.S., ON OCTOBER 19 AT 17

CHANNEL WATER BALANCE 0.0 M. CM. IN 51.3 INIT 0.1 FINL 0.1 OUT 51.3

RESERVOIR SURFACES 0.0 M. CM.

RIO CAPRIALES AT PAITO YEAR 1938 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	1.0	0.7	0.6	0.5	0.8	2.2	1.8	1.7	2.3	3.0	2.7	2.0
2	1.0	0.7	0.8	0.5	1.2	0.7	1.5	1.7	6.5	2.8	2.5	2.0
3	1.0	0.7	0.6	0.5	3.4	3.6	1.1	2.7	2.9	4.0	2.9	1.9
4	0.9	0.7	0.6	0.5	3.0	5.0	2.5	1.9	2.9	3.1	3.0	1.9
5	0.9	0.7	0.6	0.5	1.8	6.1	5.0	1.3	2.2	2.7	2.4	1.9
6	0.9	0.7	0.6	0.5	0.6	2.4	2.4	1.3	6.2	2.6	3.1	1.8
7	0.9	0.7	0.6	0.5	0.7	3.4	1.4	2.7	2.5	2.5	3.0	1.8
8	0.9	0.8	0.6	0.5	0.5	2.0	1.5	2.9	3.9	2.4	2.2	1.7
9	0.9	0.8	0.6	0.5	0.5	6.3	1.2	1.8	2.3	2.4	2.2	1.7
10	0.9	0.7	0.5	0.4	0.5	2.9	1.1	2.3	8.6	2.3	7.5	1.7
11	0.9	0.7	0.5	0.4	0.5	8.0	1.0	2.8	3.1	2.3	3.3	1.7
12	0.9	0.7	0.5	0.4	0.5	1.9	1.1	2.0	2.7	2.2	7.9	1.6
13	0.9	0.7	0.5	0.4	0.5	1.2	4.0	1.4	2.5	2.1	4.8	1.6
14	0.8	0.7	0.5	0.4	0.5	1.1	1.3	1.3	6.7	2.1	6.6	7.2
15	0.8	0.6	0.5	0.4	0.5	1.0	3.9	5.5	3.0	2.5	4.2	2.6
16	0.8	0.6	0.5	0.4	0.5	1.0	1.3	4.6	2.6	3.3	3.3	1.8
17	0.8	0.6	0.5	0.4	0.4	1.1	6.8	3.2	2.5	3.0	2.9	1.8
18	0.8	0.6	0.5	0.4	0.4	1.0	2.1	3.1	2.4	3.1	2.7	1.7
19	0.8	0.6	0.5	0.4	0.4	1.2	1.4	4.3	2.3	6.5	2.6	1.7
20	0.8	0.6	0.5	0.4	4.1	1.3	1.3	2.6	2.2	3.1	2.7	1.6
21	0.8	0.6	0.5	0.4	3.2	7.3	3.9	1.8	2.2	2.4	2.9	1.6
22	0.8	0.6	0.5	0.4	0.6	1.3	1.5	7.9	2.1	2.3	2.6	1.6
23	0.8	0.6	0.5	0.4	0.5	1.1	1.3	3.7	2.1	5.1	2.3	1.6
24	0.8	0.6	0.5	0.6	0.5	1.1	1.8	2.3	13.5	3.1	2.3	1.5
25	0.8	0.6	0.5	3.5	3.4	1.0	3.6	3.2	15.4	2.4	2.2	1.5
26	0.8	0.6	0.5	0.5	1.4	1.0	1.6	2.4	8.1	2.3	2.9	1.5
27	0.7	0.6	0.5	0.4	0.7	0.9	1.4	2.0	5.8	2.5	2.4	1.5
28	0.7	0.6	0.5	0.4	1.8	1.8	1.3	1.9	4.9	3.3	2.2	1.4
29	0.7		0.5	0.4	2.4	2.3	3.8	3.6	3.8	2.6	2.1	1.4
30	0.7		0.5	0.4	1.6	1.1	1.7	2.9	3.3	2.7	2.0	1.4
31	0.7		0.5		0.6		1.3	4.8		3.5		1.4
SIMULATION												
MEAN	0.9	0.7	0.6	0.6	1.3	2.5	2.2	2.9	4.4	3.0	3.3	1.9
VOL	2.4	1.7	1.6	1.6	3.4	6.4	5.9	7.7	11.5	7.9	8.5	5.1
MAX	1.0	0.8	0.8	3.6	4.2	8.1	6.8	7.9	15.5	6.5	7.9	7.3
MIN	0.9	0.6	0.5	0.5	0.5	0.7	1.1	1.3	2.1	2.2	2.1	1.4

ANNUAL MEAN 2.0 VOLUME 63.6 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 38.8 C.M.S., ON SEPTEMBER 24 AT 14

CHANNEL WATER BALANCE	-0.0 M. CM.	IN	63.6 INIT	0.1 FINL	0.1 OUT	63.6
RESERVOIR SURFACES	0.0 M. CM.					

RIO CABRIALES AT PAITO YEAR 1939 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	1.4	0.9	0.7	0.6	0.5	0.5	0.6	0.6	0.7	1.0	1.1	0.9
2	1.3	0.9	0.7	0.6	0.5	0.5	0.5	0.6	0.7	0.9	1.1	0.9
3	1.3	0.9	0.7	0.6	0.5	0.5	0.5	0.6	0.6	8.5	1.1	0.9
4	1.3	0.9	0.7	0.6	0.5	0.5	0.6	1.8	1.7	6.4	1.1	0.9
5	1.3	0.9	0.7	0.6	0.5	0.5	0.6	0.7	0.7	1.8	1.1	0.8
6	1.3	0.9	0.7	0.6	0.5	0.5	3.7	0.6	0.8	1.5	4.2	0.8
7	1.2	0.9	0.7	0.6	0.5	0.5	1.1	0.8	0.7	1.7	1.2	0.8
8	1.2	0.9	0.7	0.6	0.5	4.3	0.6	4.1	0.6	1.2	1.1	0.8
9	1.2	0.9	0.7	0.6	0.5	1.7	0.6	0.7	1.0	5.4	1.1	0.8
10	1.2	0.9	0.7	0.6	0.5	0.6	0.5	0.6	4.3	2.3	1.9	0.8
11	1.2	0.9	0.7	0.6	0.5	0.5	0.5	0.6	2.1	1.4	2.0	0.8
12	1.2	0.8	0.7	0.6	0.5	0.5	0.5	0.6	1.0	1.2	1.1	0.8
13	1.1	0.8	0.7	2.2	0.5	3.7	0.5	0.6	0.7	1.6	1.1	0.8
14	1.1	0.8	0.7	0.8	1.1	1.0	0.5	0.6	0.7	1.1	1.0	0.8
15	1.1	0.8	0.7	0.6	0.6	0.5	4.0	0.7	0.7	1.1	2.8	0.7
16	1.1	0.8	0.7	0.6	0.5	0.5	0.9	0.6	0.7	2.1	1.4	0.7
17	1.1	0.8	0.7	0.6	0.7	0.5	3.0	0.6	3.4	1.6	1.2	0.7
18	1.1	0.8	0.7	0.6	0.5	2.6	0.8	5.9	0.9	1.1	2.2	0.7
19	1.1	0.8	0.7	0.6	0.5	3.6	0.6	1.2	5.7	6.1	1.4	0.7
20	1.1	0.9	0.6	0.6	1.0	1.3	0.6	0.8	1.3	3.5	1.1	0.7
21	1.0	0.8	0.6	0.6	0.6	0.8	0.6	2.3	0.8	1.4	1.0	0.7
22	1.0	0.8	0.6	0.6	0.5	0.6	6.0	0.7	1.5	1.3	1.0	0.7
23	1.0	0.8	0.6	0.6	0.5	0.5	1.9	1.0	0.9	1.2	1.0	0.7
24	1.0	0.8	0.6	0.5	4.5	0.6	0.7	0.8	0.8	1.1	1.0	0.7
25	1.0	0.8	0.6	0.5	1.4	0.7	0.6	0.7	0.7	8.8	1.0	0.7
26	1.0	0.8	0.6	0.5	0.5	0.6	1.4	0.6	0.7	3.3	0.9	0.7
27	1.0	0.8	0.6	0.5	0.5	0.6	1.9	0.9	0.7	1.9	0.9	0.7
28	1.0	0.7	0.6	0.5	0.5	1.3	0.8	5.6	0.8	1.6	0.9	0.6
29	1.0		0.6	0.5	0.5	0.7	0.6	0.9	7.9	1.4	0.9	0.6
30	1.0		0.6	0.5	0.5	0.9	0.6	0.7	3.2	1.3	0.9	0.6
31	0.9		0.6		0.5		0.6	0.7		1.2		0.6
SIMULATION												
MEAN	1.2	0.9	0.7	0.7	0.8	1.1	1.2	1.3	1.6	2.5	1.4	0.8
VOL	3.1	2.1	1.9	1.8	2.0	2.9	3.3	3.4	4.2	6.7	3.6	2.1
MAX	1.4	1.0	0.8	2.3	4.5	4.3	6.1	6.0	7.9	8.9	4.2	0.9
MIN	1.0	0.0	0.7	0.6	0.5	0.5	0.6	0.6	0.7	0.9	0.9	0.7

ANNUAL MEAN 1.2 VOLUME 37.2 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 41.1 C.M.S., ON OCTOBER 3 AT 22

CHANNEL WATER BALANCE -0.0 M. CM. IN 37.2 INIT 0.1 FINL 0.0 OUT 37.2

RESERVOIR SURFACES 0.0 M. CM.

RIO CABRIALES AT PAITC YEAR 1940 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.6	0.5	0.4	0.3	0.3	0.3	2.0	0.6	1.1	1.7	1.0	0.9
2	0.6	0.5	0.4	0.3	0.4	0.3	2.0	1.8	2.2	1.1	1.0	0.9
3	0.6	0.5	0.4	0.3	2.2	0.3	2.1	6.6	5.8	1.0	1.0	0.9
4	0.6	0.5	0.4	0.3	0.4	0.3	0.9	1.3	4.1	3.7	1.0	0.9
5	0.6	0.5	0.4	0.3	0.3	0.3	1.2	2.9	1.7	1.5	1.0	0.8
6	0.6	0.5	0.4	0.3	0.3	0.3	0.7	2.5	1.4	6.7	1.0	0.8
7	0.6	0.5	0.4	0.3	0.3	0.3	1.0	1.2	1.3	2.6	3.6	0.8
8	0.6	0.5	0.4	0.3	0.3	0.6	3.7	0.9	1.2	1.4	1.7	0.8
9	0.6	0.5	2.0	0.3	0.3	0.4	0.8	1.8	1.2	1.3	1.0	0.8
10	0.6	0.5	0.6	0.3	0.3	0.3	0.5	0.9	1.1	1.7	1.0	0.8
11	0.6	0.4	0.4	0.3	0.3	0.3	0.5	0.7	1.1	4.3	1.0	0.8
12	0.6	0.4	0.4	0.3	0.3	0.3	0.9	5.2	1.1	3.8	1.0	0.8
13	0.6	0.4	0.4	0.3	0.3	0.3	0.7	6.8	1.1	1.5	1.0	0.8
14	0.6	0.4	0.4	0.3	0.3	0.3	0.5	1.4	1.4	1.4	0.9	0.8
15	0.5	0.4	0.4	0.3	0.3	0.3	5.8	1.0	1.1	2.1	0.9	0.7
16	0.5	0.4	0.4	0.3	0.3	5.7	1.2	0.9	1.0	1.6	0.9	4.9
17	0.5	0.4	0.4	0.3	0.3	10.5	0.6	1.1	1.3	1.3	3.6	1.7
18	0.5	0.4	0.4	0.3	0.3	0.5	0.7	1.2	1.1	1.3	1.2	0.8
19	0.5	0.4	0.4	0.3	0.3	2.0	0.6	4.6	1.0	1.2	1.0	0.8
20	0.5	0.4	0.4	2.4	0.3	4.1	0.6	6.6	1.0	1.2	0.9	0.8
21	0.5	0.4	0.4	0.6	1.1	2.4	0.5	1.4	1.3	1.2	0.9	0.8
22	0.5	0.4	0.4	4.0	1.0	1.1	3.5	2.0	1.0	1.2	1.6	0.8
23	0.5	0.4	0.4	0.6	0.3	7.2	1.4	2.0	9.8	1.1	1.2	0.8
24	0.5	0.4	0.4	0.3	0.3	0.6	4.7	5.6	2.7	1.1	1.3	0.7
25	0.5	0.4	0.4	0.3	0.3	0.5	1.0	1.4	1.4	1.1	1.1	0.7
26	0.5	0.4	0.4	0.3	0.3	0.6	0.7	1.3	1.2	1.1	0.9	0.7
27	0.5	0.4	0.4	0.3	0.3	0.5	0.6	1.3	1.9	2.2	0.9	0.7
28	0.5	0.4	0.3	0.3	3.4	0.4	0.6	2.8	1.2	1.2	1.6	1.0
29	0.5	0.4	0.3	0.3	1.2	0.7	0.6	1.2	1.3	1.1	1.2	0.8
30	0.5		0.3	0.3	0.3	5.6	0.6	1.1	1.1	1.3	0.9	0.7
31	0.5		0.3		0.3		0.6	1.1		1.1		0.7
SIMULATION												
MEAN	0.6	0.5	0.5	0.6	0.6	1.6	1.4	2.3	1.9	1.9	1.3	1.0
VOL	1.6	1.2	1.3	1.5	1.6	4.2	3.8	6.3	4.9	5.0	3.4	2.7
MAX	0.7	0.5	2.0	4.1	3.4	10.6	5.8	6.8	9.8	6.8	3.7	4.9
MIN	0.5	0.5	0.4	0.4	0.3	0.3	0.6	0.6	1.0	1.1	1.0	0.8

ANNUAL MEAN 1.2 VOLUME 37.4 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITC 44.3 C.M.S., ON JUNE 17 AT 01

CHANNEL WATER BALANCE	0.0 M. CM.	IN	37.4 INIT	0.0 FINL	0.0 OUT	37.4
RESERVOIR SURFACES	0.0 M. CM.					

RIO CARRIALES AT PAITO YEAR 1941 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.7	0.5	0.4	0.4	2.2	0.9	4.3	0.7	2.2	0.9	0.9	1.2
2	0.7	0.5	0.4	0.4	6.2	0.8	3.0	0.9	1.0	0.9	0.9	0.7
3	0.7	0.5	0.4	0.4	1.5	0.7	1.2	0.8	0.8	0.9	0.9	0.7
4	0.7	0.5	0.4	0.4	1.9	0.7	0.8	0.7	0.8	0.9	0.8	0.7
5	0.7	0.5	0.4	0.4	2.8	1.8	0.7	1.5	0.8	0.9	0.8	0.7
6	0.7	0.5	0.4	0.4	0.5	1.2	0.7	0.8	0.8	3.0	0.8	0.7
7	0.7	0.5	0.4	0.4	0.4	1.3	0.8	0.7	0.8	1.0	0.8	0.7
8	0.6	0.5	0.4	0.3	0.4	2.0	8.4	0.7	5.7	1.2	0.8	0.7
9	0.6	0.5	0.4	0.3	0.4	2.4	1.7	1.1	1.3	1.4	0.8	0.7
10	0.6	0.5	0.4	0.3	0.4	2.8	3.8	0.9	7.9	0.9	0.8	0.7
11	0.6	0.5	0.4	0.3	0.4	0.9	1.3	0.7	1.5	0.9	0.8	0.6
12	0.8	0.5	0.4	0.3	6.5	0.8	0.9	0.7	1.2	4.2	0.8	0.6
13	1.4	0.5	0.4	0.3	10.0	0.8	0.9	0.7	4.8	1.6	0.8	0.6
14	0.7	0.5	0.4	0.3	2.9	0.7	1.8	0.6	1.4	1.2	0.7	0.6
15	0.6	0.5	0.4	1.6	0.6	0.7	1.1	0.6	1.1	1.0	0.7	0.6
16	0.6	0.5	0.4	0.5	0.5	0.7	0.8	0.6	1.1	0.9	0.7	0.6
17	0.6	0.5	0.4	0.3	0.5	0.7	0.8	1.4	1.0	0.9	0.7	0.6
18	0.6	0.5	0.4	0.3	0.5	0.7	0.8	5.9	1.0	0.9	0.7	0.6
19	0.6	0.5	0.4	0.3	0.5	0.8	1.9	2.1	1.0	4.5	0.7	0.6
20	0.6	0.5	0.4	0.3	0.5	0.9	1.9	0.8	3.1	2.9	0.8	0.6
21	0.6	0.5	0.4	0.3	0.5	2.5	0.8	1.6	1.1	1.0	2.5	0.6
22	0.6	0.5	0.4	0.3	15.6	0.7	0.8	0.8	1.0	1.0	0.9	0.6
23	0.6	0.5	0.4	0.3	14.0	0.7	0.8	0.7	1.0	1.0	0.7	0.6
24	0.6	0.5	0.4	0.3	3.0	0.7	0.8	0.7	1.8	0.9	0.7	0.6
25	0.6	0.5	0.4	0.3	2.0	1.2	0.8	1.5	1.1	0.9	3.0	0.6
26	0.6	0.5	0.4	0.3	1.4	0.8	0.7	0.8	1.0	0.9	1.1	0.6
27	0.6	0.4	0.4	0.3	1.1	0.7	0.7	2.9	2.6	0.9	0.7	0.6
28	0.5	0.4	0.4	0.3	0.9	0.8	1.5	5.0	1.1	0.9	0.7	0.5
29	0.6		0.4	0.3	0.8	0.7	1.7	1.3	1.2	1.6	0.7	0.5
30	0.5		0.4	0.3	1.9	2.9	0.8	0.9	1.0	1.4	0.7	0.5
31	0.5		0.4		3.6		0.7	2.1		0.9		0.5
SIMULATION												
MEAN	0.7	0.5	0.5	0.4	2.8	1.2	1.6	1.4	1.8	1.4	1.0	0.7
VOL	1.9	1.3	1.2	1.1	7.4	3.1	4.3	3.7	4.6	3.8	2.5	1.8
MAX	1.5	0.6	0.5	1.6	15.6	2.9	8.4	6.0	8.0	4.6	3.0	1.2
MIN	0.6	0.5	0.4	0.4	0.4	0.7	0.8	0.7	0.8	0.9	0.8	0.6

ANNUAL MEAN 1.2 VOLUME 36.8 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 47.6 C.M.S., ON MAY 22 AT 07

CHANNEL WATER BALANCE 0.0 M. CM. IN 36.8 INIT 0.0 FINL 0.0 OUT 36.8

RESERVOIR SURFACES 0.0 M. CM.

RIO CABRIALES AT PAITC YEAR 1942 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.5	0.4	0.4	0.3	1.6	1.0	2.1	1.2	4.5	1.9	1.7	1.4
2	0.5	0.4	0.4	0.3	1.1	8.1	1.1	1.2	3.9	1.8	7.2	1.7
3	0.5	0.4	0.3	0.3	1.5	2.6	1.0	1.1	2.0	1.7	3.2	1.4
4	0.5	0.4	0.3	0.3	0.8	0.9	1.0	1.1	3.4	2.4	2.2	1.3
5	0.5	0.4	0.3	0.3	0.7	2.5	1.0	1.1	2.0	1.8	2.4	1.3
6	0.5	0.4	0.3	0.3	0.6	2.7	1.0	1.5	4.6	1.7	2.0	1.3
7	0.5	0.4	0.3	0.3	0.6	1.0	0.9	1.1	4.5	1.6	1.8	1.3
8	0.5	0.4	0.3	0.3	0.6	0.8	2.2	1.5	2.2	1.6	1.7	1.3
9	0.5	0.4	0.3	0.3	0.6	1.6	1.4	1.1	2.0	3.8	2.1	1.2
10	0.5	0.4	0.3	0.3	0.5	2.3	1.0	5.5	8.9	2.0	1.8	1.2
11	0.5	0.4	0.3	0.3	0.5	1.4	7.1	2.3	3.7	2.6	1.6	1.2
12	0.5	0.4	0.3	0.3	0.5	2.4	6.2	1.2	2.8	1.7	1.6	1.2
13	0.5	0.4	0.3	1.3	1.1	0.9	1.7	1.2	2.4	1.6	1.5	2.0
14	0.5	0.4	0.3	0.4	1.4	3.4	1.3	1.4	2.2	7.7	1.5	1.3
15	0.5	0.4	0.4	0.3	0.7	2.1	1.2	1.2	2.1	3.6	1.5	1.2
16	0.5	0.4	0.4	0.3	0.8	1.4	1.2	1.1	1.9	2.3	1.4	1.2
17	0.5	0.4	0.3	0.3	3.1	0.9	1.1	1.1	1.9	2.0	1.4	1.2
18	0.5	0.4	0.3	0.3	8.9	0.9	1.1	8.8	1.8	1.9	1.4	1.4
19	0.5	0.4	0.3	0.3	1.7	3.1	1.4	1.8	1.8	1.8	1.4	1.2
20	0.5	0.4	0.3	0.4	0.7	1.6	2.8	1.4	1.7	1.8	1.4	7.0
21	0.5	0.4	0.3	4.0	3.6	0.9	1.4	1.3	1.7	1.7	1.3	2.4
22	0.4	0.4	0.3	0.4	1.4	0.9	4.6	1.6	1.6	1.7	1.7	1.3
23	0.4	0.4	0.3	0.3	0.7	0.9	1.5	6.0	2.3	4.5	2.6	1.2
24	0.4	0.4	0.3	0.3	0.7	0.8	2.0	1.6	1.7	2.0	4.2	6.9
25	0.4	0.4	0.3	0.3	0.7	3.0	2.0	4.0	1.6	1.8	3.0	1.8
26	0.4	0.4	0.3	20.7	1.5	1.6	1.2	1.8	2.7	1.7	2.0	1.5
27	0.4	0.4	0.3	0.9	1.1	0.9	2.5	1.4	2.2	1.7	1.5	1.4
28	0.4	0.4	0.3	2.7	2.0	1.0	2.4	1.5	7.8	1.6	1.5	1.3
29	0.4		0.3	0.9	0.8	5.2	1.2	4.6	2.9	1.6	1.5	1.3
30	0.4		0.3	17.6	0.7	4.4	2.0	2.1	2.0	1.6	1.4	1.2
31	0.4		0.3		0.7		1.4	5.4		3.5		1.2
SIMULATION												
MEAN	0.5	0.4	0.4	1.9	1.4	2.1	2.0	2.3	3.0	2.3	2.1	1.8
VOL	1.4	1.1	1.0	4.9	3.8	5.4	5.3	6.1	7.7	6.2	5.4	4.8
MAX	0.6	0.5	0.5	20.7	9.0	8.2	7.1	8.8	9.0	7.7	7.2	7.1
MIN	0.5	0.4	0.3	0.3	0.6	0.9	1.0	1.1	1.6	1.6	1.4	1.2

ANNUAL MEAN 1.7 VOLUME 53.1 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITC 73.2 C.M.S., ON APRIL 26 AT 07

CHANNEL WATER BALANCE 0.1 M. CM. IN 53.2 INIT 0.0 FINL 0.1 OUT 53.1

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1943 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	1.2	0.8	3.6	0.6	0.8	1.4	1.4	8.3	5.2	4.0	4.4	1.4
2	1.2	0.8	0.8	0.6	6.1	3.7	5.9	2.8	4.2	6.2	2.4	1.4
3	1.2	0.8	0.7	0.6	2.5	2.0	1.8	6.4	2.5	3.0	2.2	1.4
4	1.1	0.8	0.7	0.6	3.4	1.4	1.5	3.7	2.1	2.6	2.1	1.4
5	1.1	0.8	0.7	0.6	2.1	1.4	9.9	2.9	8.0	2.5	2.1	1.4
6	1.1	0.8	0.7	0.6	1.0	1.4	2.3	2.5	4.3	3.1	2.0	1.3
7	1.1	0.8	0.7	0.6	0.9	1.3	1.9	2.4	2.6	3.2	2.0	1.3
8	1.1	0.8	0.7	0.6	0.9	1.5	1.7	2.3	3.1	2.5	1.9	1.3
9	1.1	0.8	0.7	0.5	0.9	1.9	4.1	2.2	10.7	2.4	1.9	1.3
10	1.0	0.8	0.7	0.5	0.9	2.4	2.1	2.1	4.5	2.3	1.9	1.3
11	1.0	0.7	0.7	0.5	8.2	1.4	3.1	3.0	3.5	2.3	1.9	1.2
12	1.0	0.7	0.7	1.6	3.8	1.3	5.3	2.3	3.0	2.2	1.8	1.2
13	1.0	0.7	0.7	0.6	1.2	1.3	2.3	4.1	2.8	2.9	1.8	1.2
14	1.0	0.7	0.6	0.5	4.8	1.2	2.6	2.5	2.6	6.5	4.7	1.2
15	1.0	0.7	0.6	0.5	6.3	1.2	6.7	3.6	2.4	2.5	2.6	1.2
16	1.0	0.7	0.6	0.5	4.7	1.2	2.5	2.2	2.3	2.8	1.9	1.2
17	1.0	0.7	0.6	0.5	2.8	3.1	2.1	2.1	2.2	2.4	1.8	1.2
18	1.0	0.7	0.6	0.5	1.7	2.3	2.0	2.1	2.2	2.3	1.8	1.1
19	0.9	0.7	0.6	0.5	1.4	1.2	1.9	2.0	2.1	2.9	1.8	1.1
20	0.9	0.7	0.6	0.5	1.4	1.4	1.5	1.9	9.7	2.3	1.7	1.1
21	0.9	0.7	0.6	0.5	2.4	4.7	2.0	1.9	11.7	2.2	1.7	1.1
22	0.9	0.7	0.6	6.0	1.6	1.4	3.0	1.9	5.5	2.1	1.7	1.1
23	0.9	0.7	0.6	1.1	2.1	2.8	6.5	2.9	3.9	3.6	1.6	1.1
24	0.9	0.7	1.6	1.0	1.3	4.1	2.3	1.9	3.3	3.8	1.6	1.1
25	0.9	0.7	0.7	7.6	4.2	1.6	2.6	1.8	3.0	2.6	1.6	1.1
26	0.9	0.7	0.6	0.8	8.0	1.4	8.6	1.8	2.8	2.2	1.6	1.0
27	0.9	0.7	0.6	0.7	2.1	1.4	3.5	1.7	2.7	5.2	1.5	1.0
28	0.9	3.2	0.6	5.9	1.8	1.4	2.6	5.6	2.6	2.7	1.5	1.0
29	0.8		0.6	3.3	1.6	2.4	2.4	3.2	2.5	2.3	1.5	1.0
30	0.8		0.6	1.0	1.5	1.4	2.2	2.0	2.4	2.2	1.5	1.0
31	0.8		0.6		1.5		2.1	1.9		2.1		1.0
SIMULATION												
MEAN	1.0	0.8	0.8	1.4	2.8	2.0	3.3	2.9	4.1	3.0	2.1	1.2
VOL	2.9	2.1	2.2	3.6	7.4	5.1	8.8	7.7	10.5	8.1	5.3	3.3
MAX	1.2	3.3	3.7	7.7	8.3	4.7	10.0	8.4	12.0	6.5	4.7	1.5
MIN	0.9	0.0	0.6	0.6	0.8	1.2	1.5	1.9	2.1	2.2	1.5	1.0

ANNUAL MEAN 2.1 VOLUME 67.0 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 28.5 C.M.S., ON JULY 5 AT 12

CHANNEL WATER BALANCE -0.1 M. CM. IN 66.9 INIT 0.1 FINL 0.1 OUT 67.0

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1944 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	1.0	0.8	0.6	0.5	0.7	0.7	0.9	0.8	3.0	2.6	1.6	1.3
2	1.0	0.7	0.6	0.5	2.1	0.9	0.9	1.0	4.8	2.5	1.4	1.2
3	1.0	0.7	0.6	0.5	2.8	2.4	0.9	0.9	2.0	2.4	3.2	1.2
4	1.0	0.7	0.6	0.5	1.7	1.3	0.9	0.8	1.9	2.4	1.4	1.2
5	0.9	0.7	0.6	0.5	1.5	0.7	0.8	0.8	1.8	2.3	1.4	1.2
6	0.9	0.7	0.6	0.5	1.5	0.6	0.8	1.4	1.7	2.3	1.4	1.2
7	0.9	0.7	0.6	0.5	0.8	0.6	0.8	0.8	1.7	2.3	1.3	1.2
8	0.9	0.7	0.6	0.5	1.7	2.6	5.9	0.8	11.1	2.2	1.3	1.1
9	0.9	0.7	0.6	0.5	3.8	1.7	2.4	0.7	3.5	2.1	1.3	1.1
10	0.9	0.7	0.6	0.5	1.4	3.9	2.8	0.7	2.5	2.1	2.4	1.4
11	0.9	0.7	0.6	0.5	0.6	2.3	2.0	0.7	2.2	2.0	1.7	1.1
12	0.9	0.7	0.6	0.5	0.6	7.5	1.0	15.0	2.0	2.0	1.3	1.1
13	0.9	0.7	0.6	0.5	0.6	1.4	0.9	1.6	1.9	1.9	2.0	1.1
14	0.9	0.7	0.6	0.5	1.1	0.9	0.9	1.2	7.1	1.9	10.0	1.1
15	0.9	0.7	0.6	0.5	0.7	1.9	0.9	1.1	11.0	1.8	2.1	1.1
16	0.9	0.7	0.6	0.5	0.6	8.1	0.9	1.3	15.4	1.8	1.7	1.0
17	0.8	0.7	0.6	0.5	0.6	6.3	0.9	1.0	7.9	1.8	1.6	1.0
18	0.8	0.7	0.6	0.5	0.6	1.3	0.9	6.1	5.4	1.7	1.6	1.0
19	0.8	0.7	0.6	0.5	0.6	1.1	0.8	2.1	4.2	1.7	1.5	1.0
20	0.8	0.7	0.6	0.5	1.5	1.1	1.0	14.9	9.3	1.7	1.5	1.0
21	0.8	0.7	0.6	0.5	0.8	1.0	1.6	4.7	5.0	1.6	1.5	1.0
22	0.8	0.7	0.5	0.5	0.6	1.2	2.0	7.8	3.9	1.8	1.5	1.0
23	0.8	0.6	0.5	0.5	6.5	1.0	1.4	5.5	3.4	1.6	1.4	1.0
24	0.8	0.6	0.5	0.4	1.7	1.0	1.0	2.9	3.1	1.6	1.4	0.9
25	0.8	0.6	0.5	0.4	0.7	0.9	0.8	2.0	2.9	1.5	1.4	0.9
26	0.8	0.6	0.5	0.4	0.6	0.9	2.2	1.8	2.8	1.5	1.4	0.9
27	0.8	0.6	0.9	0.4	2.6	0.9	1.2	1.8	2.7	1.5	1.3	0.9
28	0.8	0.6	0.5	0.4	0.7	1.0	0.9	3.0	2.9	1.4	1.3	0.9
29	0.8	0.6	0.5	4.4	1.0	2.9	0.8	7.2	4.9	1.4	1.3	0.9
30	0.8		0.5	2.0	1.7	1.0	0.8	2.4	2.9	1.4	1.3	0.9
31	0.8		0.5		1.5		0.8	1.9		2.1		0.9
SIMULATION												
MEAN	0.9	0.8	0.6	0.7	1.5	2.0	1.4	3.1	4.5	2.0	1.9	1.1
VOL	2.4	1.8	1.7	1.8	3.9	5.2	3.7	8.3	11.8	5.2	4.9	3.0
MAX	1.0	0.8	0.7	4.5	6.5	8.2	6.0	15.1	15.4	2.7	10.1	1.4
MIN	0.8	0.7	0.6	0.5	0.6	0.7	0.9	0.8	1.7	1.4	1.3	0.9

ANNUAL MEAN 1.7 VOLUME 53.8 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 51.0 C.M.S., ON AUGUST 12 AT 07

CHANNEL WATER BALANCE -0.0 M. CM. IN 53.8 INIT 0.1 FINL 0.1 OUT 53.8

RESERVOIR SURFACES 0.0 M. CM.

RIO CABRITALES AT PAITO YEAR 1945 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.9	0.7	0.5	0.5	2.9	2.8	6.6	1.9	6.1	2.2	1.8	3.8
2	0.9	0.7	0.5	0.5	1.5	0.8	4.5	1.8	2.9	2.7	1.8	1.3
3	0.9	0.7	0.5	0.4	0.6	0.7	3.4	10.4	3.3	2.2	1.7	1.9
4	0.8	0.7	0.5	0.4	0.6	0.7	4.1	2.8	19.4	2.1	1.7	1.4
5	0.8	0.6	0.5	0.4	0.6	0.7	2.8	5.8	8.3	2.0	1.7	1.3
6	0.8	0.6	0.5	0.7	0.6	0.6	2.2	3.7	5.9	2.2	1.6	1.2
7	0.8	0.6	0.5	0.5	0.6	0.6	2.7	3.2	4.5	2.0	1.6	1.2
8	0.8	0.6	0.5	0.4	0.6	0.6	3.1	3.0	3.8	1.9	1.6	1.2
9	0.8	0.6	0.5	0.4	0.5	3.0	2.1	2.4	5.0	1.9	1.6	1.2
10	0.8	0.6	0.5	0.4	0.5	0.8	1.9	2.2	7.1	1.9	1.5	1.2
11	0.8	0.6	0.5	0.4	0.6	8.4	1.8	2.6	4.3	1.8	1.5	1.2
12	0.8	0.6	0.5	1.9	1.1	1.4	1.8	2.1	3.4	1.8	1.5	1.1
13	0.8	0.6	0.5	0.7	7.5	0.8	7.3	2.9	3.2	4.7	1.5	1.1
14	0.8	0.6	0.5	4.1	1.9	0.8	4.0	2.1	3.0	2.2	2.1	2.4
15	0.8	0.6	0.5	3.1	0.7	1.0	2.5	2.1	2.9	3.2	1.6	1.9
16	0.8	0.6	0.5	6.8	0.6	3.6	2.1	2.9	2.8	2.1	1.4	1.2
17	0.7	0.6	0.5	1.0	0.6	3.2	2.8	2.0	3.1	1.9	1.4	1.2
18	0.7	0.6	0.5	0.6	2.7	8.9	2.1	2.9	4.0	1.8	1.4	1.1
19	0.7	0.6	0.5	0.5	4.7	4.4	2.4	2.1	2.8	5.3	1.4	1.1
20	0.7	0.6	0.5	0.5	1.6	2.2	2.2	2.2	2.7	2.2	1.4	1.1
21	0.7	0.6	0.5	0.5	0.7	13.7	1.9	2.1	2.6	1.9	1.3	1.1
22	0.7	0.6	0.5	0.5	1.2	3.0	2.0	6.4	2.5	1.9	1.3	1.1
23	0.7	0.6	0.5	0.7	0.8	2.0	1.8	5.1	2.4	1.8	1.3	1.1
24	0.7	0.6	0.5	3.9	1.3	1.7	1.7	2.9	2.4	4.3	1.3	1.1
25	0.7	0.6	0.5	2.5	2.0	1.5	1.7	5.8	2.3	4.1	1.3	1.0
26	0.7	0.6	0.5	1.4	1.6	3.7	1.6	2.6	5.8	2.3	1.2	1.0
27	0.7	0.6	0.5	0.6	1.5	2.3	5.5	2.6	2.8	2.6	1.2	1.0
28	0.7	0.6	0.5	0.6	0.9	2.3	2.8	2.3	2.4	2.2	1.2	1.0
29	0.7		0.5	0.6	0.7	7.6	5.3	2.2	2.3	1.9	1.2	1.0
30	0.7		0.5	0.5	0.7	17.4	2.2	2.5	2.3	1.9	1.3	1.0
31	0.7		0.5		0.7		1.9	6.9		1.8		1.0
SIMULATION												
MEAN	0.8	0.7	0.5	1.3	1.5	2.4	3.0	3.4	4.3	2.5	1.5	1.4
VOL	2.2	1.6	1.5	3.2	3.9	8.9	8.0	9.0	11.0	6.6	4.0	3.6
MAX	0.9	0.7	0.6	6.9	7.5	17.4	7.3	10.5	19.5	5.3	2.2	3.9
MIN	0.7	0.6	0.5	0.5	0.6	0.7	1.7	1.9	2.3	1.8	1.2	1.0

ANNUAL MEAN 2.0 VOLUME 63.4 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 54.5 C.M.S., ON SEPTEMBER 4 AT 12

CHANNEL WATER BALANCE -0.0 M. CM. IN 63.4 INIT 0.1 FINL 0.1 OUT 63.4

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1946 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	1.0	0.7	0.6	0.6	0.7	2.7	0.8	1.1	1.9	4.5	3.3	1.5
2	1.0	0.7	0.6	0.5	0.7	3.7	1.4	1.0	3.6	2.4	3.0	1.5
3	0.9	0.7	0.6	2.2	0.6	1.4	1.0	3.4	2.1	2.1	2.8	1.4
4	0.9	0.7	0.6	1.0	2.6	1.1	0.8	2.4	5.3	2.0	2.7	1.4
5	0.9	0.7	0.6	3.6	2.1	1.0	0.8	2.2	2.4	6.8	2.6	1.4
6	0.9	0.7	0.6	0.6	0.9	1.0	0.8	3.0	2.0	3.3	2.5	1.4
7	0.9	0.7	0.6	0.5	0.8	3.6	0.7	1.9	1.9	2.3	2.4	1.4
8	0.9	0.7	0.6	0.5	8.1	1.1	0.7	1.2	7.6	3.3	2.4	1.6
9	0.9	0.7	0.6	0.5	1.0	1.0	0.9	2.0	3.2	2.6	2.3	1.3
10	0.9	0.7	0.6	0.5	0.8	1.8	0.8	1.2	2.5	2.1	2.2	1.3
11	0.9	0.7	0.6	0.5	0.8	1.5	0.7	2.0	2.2	2.1	2.2	1.3
12	0.9	0.7	0.6	0.5	0.7	1.0	0.7	1.7	2.0	2.0	2.2	1.3
13	0.9	0.7	0.6	0.5	0.7	1.0	0.7	6.9	2.0	2.4	2.1	1.3
14	0.8	0.7	0.6	0.5	0.7	1.0	3.0	12.0	13.1	8.3	2.1	12.7
15	0.8	0.7	0.6	4.9	0.7	1.0	1.7	3.3	6.4	3.2	2.0	3.5
16	0.8	0.7	0.5	0.8	0.7	1.5	0.9	2.4	3.9	2.5	2.0	1.8
17	0.8	0.6	0.5	0.6	0.7	1.0	0.7	2.0	3.3	9.4	1.9	1.6
18	0.8	0.6	0.5	0.6	5.2	0.9	1.6	2.7	5.4	8.5	1.9	1.5
19	0.8	0.6	0.5	2.7	1.7	0.9	5.9	3.4	3.5	4.3	1.9	1.4
20	0.8	0.6	0.5	0.8	0.8	0.9	2.4	2.5	2.7	3.5	1.8	1.4
21	0.8	0.6	0.5	0.6	3.2	0.9	2.2	2.6	2.9	6.7	1.8	1.3
22	0.8	0.6	0.5	0.6	5.4	1.2	1.9	1.8	2.5	6.1	1.7	1.3
23	0.8	0.6	0.5	0.6	3.4	0.9	0.9	1.6	2.4	4.4	1.7	1.3
24	0.8	0.6	0.5	10.6	2.7	0.9	4.4	1.8	2.3	5.6	1.7	1.3
25	0.8	0.6	0.5	1.3	1.9	0.8	1.3	1.6	2.2	3.3	1.7	1.2
26	0.8	0.6	0.5	3.8	1.7	0.8	1.0	4.3	2.2	3.0	1.6	1.2
27	0.8	0.6	0.5	0.8	1.2	0.8	3.5	1.8	2.1	2.8	1.6	1.2
28	0.7	0.6	0.5	0.7	2.5	0.8	1.5	1.6	2.1	2.7	1.6	1.2
29	0.7		0.5	0.7	1.0	0.9	1.0	6.7	2.0	2.6	1.5	1.2
30	0.7		0.5	0.7	1.0	0.9	3.1	3.5	2.0	8.7	1.5	1.2
31	0.7		0.5		1.3		1.4	2.1		4.7		1.1
SIMULATION												
MEAN	0.9	0.7	0.6	1.5	1.9	1.3	1.6	2.9	3.4	4.2	2.1	1.8
VOL	2.4	1.7	1.6	3.9	5.0	3.4	4.4	7.7	8.7	11.2	5.5	4.9
MAX	1.0	0.8	0.7	10.6	8.2	3.8	6.0	12.0	13.2	9.5	3.3	12.7
MIN	0.9	0.7	0.5	0.6	0.7	0.9	0.7	1.1	1.9	2.0	1.6	1.2

ANNUAL MEAN 1.9 VOLUME 60.5 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 38.8 C.M.S., ON OCTOBER 17 AT 21
CHANNEL WATER BALANCE -0.0 M. CM. IN 60.5 INIT 0.1 FINL 0.1 OUT 60.5
RESERVOIR SURFACES 0.0 M. CM.

RIO CABRIALES AT PAITC YEAR 1947 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	1.1	0.8	0.7	0.5	0.5	1.3	0.7	1.0	1.1	1.2	1.5	0.9
2	1.1	0.8	0.7	0.5	0.4	2.8	0.6	0.9	1.1	1.1	1.4	0.9
3	1.1	0.8	0.7	0.5	0.4	0.6	0.6	0.9	3.3	1.1	1.3	0.8
4	1.1	0.8	0.6	0.5	0.4	0.5	0.5	0.9	1.2	1.1	1.3	0.8
5	1.1	0.8	0.6	0.5	0.4	0.4	0.5	0.9	2.9	2.0	1.2	0.8
6	1.1	0.8	0.6	0.5	0.4	1.4	0.5	0.9	2.0	1.2	1.2	0.8
7	1.1	0.8	0.6	0.5	0.4	0.6	0.5	1.0	1.2	1.1	1.2	0.8
8	1.0	0.8	0.6	0.5	0.4	0.5	0.7	4.5	1.2	1.1	1.2	0.8
9	1.0	0.8	0.6	0.5	0.4	0.4	3.3	1.1	1.2	1.1	1.1	0.8
10	1.0	0.8	0.6	0.5	0.4	0.4	1.0	3.7	1.1	4.2	1.1	0.8
11	1.0	0.8	0.6	0.5	0.4	0.4	2.8	2.1	1.1	1.3	1.1	0.8
12	1.0	0.7	0.6	0.5	0.4	0.4	13.2	1.1	1.1	1.1	1.1	0.8
13	1.0	0.7	0.6	0.5	0.4	0.4	2.3	1.0	2.6	1.1	1.1	0.8
14	1.0	0.7	0.6	0.5	0.4	0.4	1.2	1.8	1.2	1.1	1.1	0.7
15	1.0	0.7	0.6	0.5	0.4	5.4	5.1	1.6	1.1	1.0	1.0	0.7
16	1.0	0.7	0.6	0.5	0.4	0.8	10.3	5.1	1.1	1.0	1.7	0.7
17	0.9	0.7	0.6	0.5	0.4	2.7	3.6	1.2	1.8	1.0	1.3	0.7
18	0.9	0.7	0.6	0.5	0.4	5.6	2.6	1.8	1.7	1.0	1.0	0.7
19	0.9	0.7	0.6	0.5	0.4	1.5	1.4	11.9	2.9	1.6	1.0	0.7
20	0.9	0.7	0.6	0.5	0.4	0.6	3.6	2.6	3.3	1.9	1.0	0.7
21	0.9	0.7	0.6	0.5	0.4	0.5	1.6	2.0	3.8	1.0	1.0	0.7
22	0.9	0.7	0.6	0.5	0.4	0.9	1.2	4.0	1.5	1.0	1.0	0.7
23	0.9	0.7	0.6	0.5	0.4	1.9	1.1	2.0	1.3	1.0	1.0	0.7
24	0.9	0.7	0.6	0.5	0.4	0.7	1.1	1.5	1.2	1.0	0.9	0.7
25	0.9	0.7	0.6	0.5	0.4	1.1	1.0	1.4	1.2	1.0	0.9	0.7
26	0.9	0.7	0.6	0.6	0.4	1.2	3.5	1.3	1.2	0.9	0.9	0.7
27	0.9	0.7	0.6	0.5	0.5	1.4	1.5	1.3	1.2	0.9	0.9	0.7
28	0.8	0.7	0.6	0.5	4.3	0.7	1.2	1.2	1.1	9.5	0.9	0.7
29	0.9		0.6	0.5	2.3	1.5	1.0	1.2	3.1	9.2	0.9	0.6
30	0.8		0.5	0.5	0.6	1.9	1.0	1.2	1.3	2.7	0.9	0.6
31	0.8		0.5		0.5		1.0	1.1		1.6		0.6
SIMULATION												
MEAN	1.0	0.8	0.6	0.6	0.7	1.3	2.3	2.1	1.8	1.9	1.2	0.8
VOL	2.7	1.9	1.7	1.4	1.8	3.5	6.2	5.7	4.6	5.1	3.0	2.1
MAX	1.2	0.9	0.7	0.7	4.4	5.6	13.3	12.0	3.9	9.5	1.8	0.9
MIN	0.9	0.0	0.6	0.5	0.4	0.5	0.6	1.0	1.1	1.0	0.9	0.7

ANNUAL MEAN 1.3 VOLUME 39.7 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITC 41.7 C.M.S., ON JULY 12 AT 15
CHANNEL WATER BALANCE -0.0 M. CM. IN 39.7 INIT 0.1 FINL 0.0 OUT 39.7
RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1948 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.5	0.5	0.4	0.3	0.3	1.2	0.9	2.7	2.5	2.9	2.0	1.7
2	0.5	0.5	0.4	0.3	0.3	0.7	0.8	1.7	3.7	1.8	1.5	1.2
3	0.8	0.5	0.4	0.3	0.3	0.7	0.8	1.4	2.2	1.6	3.5	1.0
4	0.6	0.5	0.4	0.3	0.3	0.5	5.4	2.4	1.8	1.6	1.7	1.0
5	0.6	0.5	0.4	0.3	0.3	4.7	1.9	1.4	1.7	1.5	1.6	1.0
6	0.6	0.5	0.4	0.3	0.3	1.6	1.0	1.2	1.7	1.5	6.9	1.0
7	0.6	0.5	0.4	0.3	17.0	0.6	2.7	1.2	1.6	1.5	2.0	1.0
8	0.8	0.5	0.4	0.3	2.1	0.7	2.6	2.2	1.5	3.4	1.4	1.0
9	0.6	0.5	0.4	0.3	0.5	2.0	1.4	1.6	2.0	1.7	1.4	1.0
10	0.6	0.5	0.4	4.6	0.4	0.7	1.0	2.2	1.5	1.5	1.4	1.4
11	0.6	0.5	0.4	0.9	0.4	0.9	0.9	3.0	1.5	1.5	1.3	1.1
12	0.6	0.5	0.4	0.4	0.4	6.7	3.9	1.5	1.5	1.4	1.3	1.0
13	0.6	0.5	0.4	0.3	0.4	0.7	2.0	2.5	1.4	1.4	1.3	0.9
14	0.6	0.5	0.4	0.3	0.5	5.2	1.6	1.7	1.4	1.4	1.3	0.9
15	0.6	0.4	0.4	0.3	2.2	4.5	1.1	4.0	1.7	2.7	1.2	0.9
16	0.6	0.5	0.4	0.3	0.5	3.4	1.6	2.8	1.4	1.9	1.2	0.9
17	0.6	0.4	0.4	1.6	0.4	1.9	1.2	2.0	1.3	1.4	1.2	0.9
18	0.6	0.4	0.4	0.5	0.4	1.1	1.0	3.6	5.4	1.4	1.2	0.9
19	0.5	0.4	0.4	0.4	0.4	0.8	1.2	8.2	1.7	1.4	1.2	0.9
20	0.5	0.4	0.4	0.3	0.4	0.7	3.1	2.6	1.5	1.3	2.2	0.9
21	0.5	0.4	0.4	0.3	1.7	1.5	1.2	2.8	1.4	1.3	1.4	0.9
22	0.5	0.4	0.4	0.3	7.5	0.9	1.0	2.0	1.4	1.3	1.2	0.9
23	0.5	0.4	0.4	0.3	3.6	3.1	1.0	3.1	5.2	2.1	1.6	0.8
24	0.5	0.4	0.4	0.3	0.6	1.5	0.9	2.7	2.4	1.9	1.2	0.8
25	0.5	0.4	0.4	0.3	0.5	0.8	0.9	3.5	1.7	1.3	1.1	0.8
26	0.5	0.4	0.4	0.3	0.5	1.6	0.9	4.0	1.5	1.3	1.1	0.8
27	0.5	0.4	0.4	0.3	0.5	2.3	1.5	2.0	2.3	1.3	1.1	0.8
28	0.5	0.4	0.4	0.3	0.5	3.6	1.1	1.5	1.6	1.2	1.1	0.8
29	0.5	0.4	0.3	0.3	0.5	1.2	10.3	2.0	3.4	1.2	1.1	0.8
30	0.5		0.3	0.3	0.4	0.9	2.6	1.8	3.1	1.2	1.1	0.8
31	0.5		0.3		3.3		5.4	1.7		1.2		0.8
SIMULATION												
MEAN	0.4	0.5	0.4	0.6	1.6	2.0	2.1	2.5	2.1	1.7	1.7	1.0
VOL	1.6	1.3	1.1	1.5	4.2	5.1	5.6	6.8	5.6	4.5	4.3	2.7
MAX	0.7	0.5	0.5	4.7	17.1	6.8	10.3	8.3	5.4	3.5	7.0	1.8
MIN	0.6	0.5	0.4	0.4	0.4	0.5	0.8	1.2	1.4	1.2	1.1	0.8

ANNUAL MEAN 1.4 VOLUME 44.3 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 54.1 C.M.S., ON MAY 7 AT 16

CHANNEL WATER BALANCE 0.0 M. CM. IN 44.3 INIT 0.0 FINL 0.1 OUT 44.3

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1949 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.8	0.6	2.2	0.4	0.4	0.4	2.3	4.3	2.6	0.7	0.7	0.9
2	0.8	0.6	0.8	0.4	0.4	0.4	5.2	1.1	0.9	0.7	0.7	0.9
3	0.8	0.6	0.5	0.4	0.4	0.4	0.9	7.4	0.7	0.7	16.1	2.2
4	0.7	0.6	0.5	0.4	0.4	0.4	0.6	1.2	0.9	0.7	15.8	1.2
5	0.7	0.6	0.5	0.4	0.4	0.4	2.2	1.4	1.4	2.0	6.1	1.0
6	0.7	0.6	0.5	0.4	0.3	1.9	0.9	0.8	0.8	1.3	3.9	0.9
7	0.7	0.6	0.5	0.4	1.7	1.1	0.6	0.9	0.7	0.7	2.8	0.9
8	0.7	0.6	0.5	0.4	0.5	0.5	0.5	3.1	0.9	0.7	2.1	1.7
9	0.7	0.6	0.5	0.4	0.4	4.1	0.5	0.8	0.7	1.5	4.1	1.1
10	0.7	0.6	0.6	0.4	0.3	1.9	0.5	1.9	0.7	1.6	1.9	1.5
11	0.7	0.6	0.5	0.4	0.3	0.4	0.5	1.4	0.6	0.7	1.5	1.0
12	0.7	0.5	0.5	0.4	0.3	0.4	0.5	0.8	0.6	0.7	1.4	0.9
13	0.7	0.5	0.5	0.4	0.3	0.4	0.5	0.7	0.6	3.4	1.3	0.9
14	0.7	0.5	0.5	0.4	0.3	2.8	1.4	0.7	0.6	1.4	1.3	0.9
15	0.7	0.5	0.5	0.4	0.4	1.9	0.8	0.8	5.6	0.8	1.2	0.8
16	0.7	0.5	0.5	0.4	2.2	0.7	0.5	0.8	1.7	0.7	1.2	0.8
17	0.7	0.5	0.5	0.4	5.6	0.6	0.5	0.7	0.9	0.9	1.2	0.8
18	0.7	0.5	0.5	0.4	1.5	0.5	0.5	0.7	0.7	1.3	1.1	0.8
19	0.7	0.5	0.5	0.4	0.4	0.4	0.5	0.7	0.7	0.8	1.1	0.8
20	0.7	0.5	0.5	0.4	0.4	0.4	1.0	1.4	0.7	0.7	1.1	0.8
21	0.6	0.5	0.5	0.4	0.4	0.4	0.7	1.8	0.7	0.7	1.1	0.8
22	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.8	0.7	0.7	1.1	0.8
23	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.7	7.1	8.4	1.0	0.8
24	0.6	0.5	0.5	0.4	0.4	0.4	0.5	2.9	1.1	2.2	1.0	0.7
25	0.6	0.5	0.4	0.4	2.2	0.4	0.5	1.3	2.2	0.9	1.0	0.7
26	0.6	0.5	0.4	0.4	0.6	0.4	0.5	1.6	1.0	3.0	1.0	0.7
27	0.6	0.5	0.4	0.4	0.4	2.6	3.9	0.9	0.8	1.0	1.0	0.7
28	0.6	0.5	0.4	0.4	0.4	1.8	0.9	0.7	1.2	0.8	1.0	0.7
29	0.6		0.4	0.4	0.4	6.5	6.0	0.7	0.8	0.8	0.9	0.7
30	0.6		0.4	0.4	0.4	2.9	4.6	0.7	0.8	0.8	0.9	0.7
31	0.5		0.4		0.4		0.9	0.7		0.8		0.7
SIMULATION												
MEAN	0.7	0.6	0.6	0.4	0.8	1.2	1.4	1.5	1.4	1.4	2.6	1.0
VOL	1.9	1.4	1.6	1.1	2.1	3.2	3.6	4.0	3.5	3.8	6.8	2.6
MAX	0.8	0.6	2.2	0.5	5.6	6.6	6.1	7.5	7.1	8.4	16.2	2.2
MIN	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.7	0.7	0.7	0.8	0.7

ANNUAL MEAN 1.1 VOLUME 35.8 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 59.5 C.M.S., ON NOVEMBER 3 AT 17

CHANNEL WATER BALANCE 0.0 M. CM. IN 35.8 INIT 0.1 FINL 0.0 OUT 35.8

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1950 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.7	0.5	0.4	0.4	0.7	0.6	0.7	3.1	1.7	3.1	1.8	6.8
2	0.7	0.5	0.4	0.4	0.4	0.7	0.6	6.7	1.6	3.4	1.6	5.4
3	0.7	0.5	0.4	0.4	0.4	0.5	0.6	1.5	1.5	1.6	1.4	3.5
4	0.7	0.5	0.4	0.4	0.3	0.4	1.5	1.8	1.5	1.5	1.4	2.8
5	0.7	0.5	0.4	0.4	2.7	1.0	1.7	4.8	2.0	1.5	1.3	2.4
6	0.6	0.5	0.4	0.4	4.6	0.7	0.7	4.3	1.5	1.4	1.3	2.1
7	0.6	0.5	0.4	0.3	1.2	3.8	0.6	1.4	2.9	4.3	1.3	2.0
8	0.6	3.3	0.4	0.3	1.7	0.6	3.2	1.6	1.7	1.9	1.3	1.9
9	0.6	1.0	0.4	0.3	2.7	0.5	0.9	1.2	1.4	1.5	1.3	1.8
10	0.6	0.5	0.4	0.3	0.6	4.4	1.6	1.1	1.4	1.5	1.2	1.8
11	0.5	0.5	0.4	0.3	0.4	1.0	0.9	1.1	1.4	1.9	1.2	1.7
12	0.6	0.5	0.4	0.3	1.9	0.5	0.7	3.6	1.5	1.4	7.4	3.1
13	0.6	0.5	0.4	0.3	1.4	1.3	5.0	2.4	1.4	1.4	1.9	2.0
14	0.6	0.5	0.4	0.3	3.1	1.5	1.1	1.2	1.3	6.9	1.4	1.7
15	0.6	0.5	0.4	0.3	1.7	9.6	9.4	1.3	1.3	1.8	1.4	1.7
16	0.6	0.5	0.4	0.3	2.0	0.9	1.6	11.0	3.0	1.5	1.3	1.6
17	0.6	0.5	0.4	0.3	1.1	0.7	1.0	8.2	1.4	1.5	1.3	1.6
18	0.6	0.5	0.4	0.3	1.9	0.6	1.5	4.1	1.3	1.4	1.3	1.6
19	0.6	0.5	0.4	0.3	0.6	0.6	1.1	2.6	5.1	5.3	1.5	1.5
20	0.6	0.5	0.4	0.3	2.2	0.6	2.3	4.9	1.5	2.3	1.4	2.9
21	0.6	0.5	0.4	0.3	1.7	0.6	0.9	3.6	2.7	3.2	1.2	1.7
22	0.6	0.5	0.4	0.3	0.6	0.6	0.8	2.0	1.6	3.5	1.2	1.5
23	0.6	0.5	0.4	0.3	0.5	0.6	0.8	1.8	1.4	1.8	1.4	1.5
24	0.6	0.5	0.4	0.3	0.5	0.5	0.9	1.8	1.4	1.6	1.2	1.5
25	0.5	0.5	0.4	0.3	0.5	1.3	0.8	1.8	1.3	1.6	3.4	1.5
26	0.5	0.5	0.4	0.3	0.6	2.3	1.4	6.3	1.3	1.6	1.6	1.4
27	0.5	0.5	0.4	2.4	0.5	0.6	1.9	2.8	1.3	1.5	1.2	1.4
28	0.5	0.5	0.4	1.9	0.5	1.0	1.1	1.9	2.4	1.5	5.6	1.4
29	0.5		0.4	0.5	0.5	4.5	0.8	1.8	1.3	1.9	55.8	1.4
30	0.5		0.4	4.7	0.5	2.9	0.8	1.7	5.4	1.9	9.7	1.3
31	0.5		0.4		0.5		3.7	1.9		1.5		1.3
SIMULATION												
MEAN	0.6	0.7	0.5	0.7	1.3	1.6	1.7	3.1	1.9	2.3	3.9	2.2
VOL	1.7	1.6	1.2	1.7	3.4	4.0	4.5	8.4	5.0	6.0	10.2	5.8
MAX	0.7	3.3	0.5	4.7	4.7	9.6	9.4	11.0	5.5	6.9	55.8	6.9
MIN	0.6	0.5	0.4	0.4	0.4	0.5	0.7	1.1	1.3	1.4	1.3	1.4

ANNUAL MEAN 1.7 VOLUME 53.6 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 149.7 C.M.S., ON NOVEMBER 29 AT 04

CHANNEL WATER BALANCE 0.2 M. CM. IN 53.5 INIT 0.0 FINL 0.1 OUT 53.6

RESERVOIR SURFACES 0.0 M. CM.

RIO CABRIALES AT PAITO YEAR 1951 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	1.3	0.9	0.8	0.6	0.9	1.6	1.2	1.5	1.5	1.6	1.5	1.1
2	1.3	4.9	0.8	0.6	0.7	0.9	1.2	1.9	1.5	1.5	1.5	1.1
3	1.3	1.4	0.8	0.6	0.7	4.9	2.1	2.3	2.7	4.7	1.4	1.1
4	1.2	0.9	0.8	0.6	2.7	1.4	2.7	1.5	1.7	4.4	3.9	2.8
5	1.2	0.9	0.8	0.6	2.2	0.9	2.1	1.4	1.5	1.9	2.1	2.1
6	1.2	0.9	0.8	0.6	1.0	0.9	10.1	1.6	1.7	1.7	1.5	1.1
7	1.2	0.9	0.8	0.6	0.8	0.9	2.6	2.3	8.2	1.7	1.7	1.1
8	1.2	0.9	0.7	0.6	0.7	0.9	1.9	1.4	2.1	4.7	1.5	1.1
9	1.1	0.9	0.7	0.6	0.7	11.6	2.1	1.3	5.7	3.6	1.4	1.1
10	1.1	0.9	0.7	0.6	0.7	3.7	1.6	2.4	2.2	1.9	1.4	1.1
11	1.1	0.9	0.7	0.6	0.7	1.2	2.2	2.2	1.9	1.8	1.4	1.0
12	1.1	0.9	0.7	0.6	0.7	1.1	1.6	7.3	1.8	3.3	5.1	1.0
13	1.1	0.9	0.7	0.6	0.7	2.6	4.8	2.0	1.7	1.8	1.8	1.0
14	1.1	0.8	0.7	0.6	0.7	1.5	2.7	1.7	1.7	1.7	1.5	1.5
15	1.1	7.1	0.7	0.6	0.7	1.1	1.9	4.6	1.6	1.7	1.4	1.1
16	1.0	1.5	0.7	0.5	13.5	1.0	1.5	1.9	1.6	1.6	1.4	1.0
17	1.5	0.9	0.7	0.5	4.8	1.0	1.4	1.6	1.6	1.6	1.4	1.0
18	1.1	0.9	0.7	0.5	2.1	5.2	1.8	1.5	1.5	1.6	1.3	1.0
19	1.0	0.9	0.7	0.5	1.6	2.6	1.5	2.6	4.9	1.6	1.3	1.0
20	1.0	0.9	0.7	0.5	1.0	3.2	2.7	1.6	1.8	1.5	1.3	1.0
21	1.0	0.9	0.7	0.5	0.9	2.7	2.6	1.5	1.6	1.5	1.3	0.9
22	1.0	0.9	0.7	0.5	0.9	1.5	1.5	4.9	1.6	1.5	1.3	0.9
23	1.0	0.9	0.7	1.9	4.0	1.2	2.7	1.8	1.7	1.4	1.2	0.9
24	1.0	0.9	0.7	0.6	1.7	1.2	6.5	2.0	3.5	1.4	1.2	0.9
25	1.0	0.9	0.6	0.5	3.0	1.2	2.0	3.3	1.6	1.4	1.2	0.9
26	0.9	0.8	0.6	0.9	1.1	1.1	1.6	5.0	2.1	1.4	1.2	0.9
27	0.9	0.9	0.6	3.7	0.9	1.1	1.6	2.3	4.0	3.8	1.2	0.9
28	0.9	0.9	0.6	0.9	0.9	5.4	1.5	1.8	1.7	4.9	1.1	0.9
29	0.9		0.6	8.1	0.9	2.2	2.1	1.7	2.0	2.1	1.1	0.9
30	0.9		0.6	3.2	0.9	1.3	1.6	1.6	1.7	1.6	1.1	0.9
31	0.9		0.6		0.8		1.6	1.6		1.5		0.8
SIMULATION												
MEAN	1.1	1.3	0.7	1.1	1.8	2.3	2.5	2.4	2.4	2.3	1.6	1.1
VOL	3.0	3.2	2.0	2.9	4.8	6.0	6.6	6.3	6.2	6.0	4.2	3.1
MAX	1.5	7.1	0.8	8.2	13.5	11.6	10.1	7.3	8.3	4.9	5.1	2.8
MIN	0.9	0.0	0.7	0.6	0.7	0.9	1.2	1.4	1.5	1.4	1.2	0.9

ANNUAL MEAN 1.7 VOLUME 54.5 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 40.2 C.M.S., ON MAY 16 AT 06

CHANNEL WATER BALANCE -0.0 M. CM. IN 54.4 INIT 0.1 FINL 0.1 OUT 54.5

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1952 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.8	0.6	0.5	0.4	0.6	0.6	1.0	1.2	1.4	3.6	1.3	1.1
2	0.8	0.6	0.5	0.4	0.6	0.6	2.7	1.2	1.3	3.4	1.3	1.1
3	0.8	0.6	0.5	0.4	0.6	0.6	4.0	1.3	3.7	3.5	1.2	1.1
4	0.8	0.6	0.5	0.4	0.6	0.6	2.0	2.8	1.5	2.4	1.2	1.1
5	0.8	0.6	0.5	0.4	0.6	2.0	1.3	2.5	1.4	2.2	2.2	1.1
6	0.8	0.6	0.5	0.4	0.6	1.6	1.7	1.3	1.3	2.0	1.7	1.0
7	0.8	0.6	0.5	0.4	0.6	0.7	2.3	2.3	1.3	2.0	1.2	1.0
8	0.8	0.6	0.5	0.4	0.6	0.6	1.3	1.3	1.7	1.9	1.4	1.0
9	0.8	0.6	0.5	0.4	0.6	0.6	1.1	1.2	5.4	2.3	1.2	1.0
10	0.8	0.6	0.5	0.4	0.6	1.3	1.0	2.0	1.9	2.3	1.2	1.0
11	0.8	0.6	0.5	0.4	0.6	0.7	1.0	4.5	1.4	1.8	1.2	1.0
12	0.8	0.6	0.5	0.4	0.6	1.7	1.0	1.6	2.5	1.8	1.2	1.0
13	0.8	0.6	0.5	4.9	0.6	0.8	3.6	1.7	1.5	1.7	1.1	1.0
14	0.7	0.6	0.5	1.0	0.6	0.6	1.5	2.1	1.4	1.7	1.1	0.9
15	0.7	0.6	0.5	14.4	0.6	2.8	1.7	1.7	1.3	3.0	1.1	0.9
16	0.7	0.6	0.5	3.4	4.4	1.4	1.2	7.4	1.3	1.8	1.1	0.9
17	0.7	0.6	0.5	0.9	1.6	2.7	4.0	2.1	1.7	1.7	1.1	0.9
18	0.7	0.6	0.5	0.6	5.6	1.4	1.4	2.8	1.3	1.6	1.1	0.9
19	0.7	0.6	0.5	9.5	4.8	0.7	5.8	1.6	4.9	1.6	1.0	0.9
20	0.7	0.6	0.5	1.4	0.8	2.9	2.1	1.5	1.8	1.6	3.7	0.9
21	0.7	0.6	0.5	0.9	0.7	4.4	2.0	1.9	1.4	1.6	3.7	0.9
22	0.7	0.6	0.5	0.8	0.7	1.6	1.4	1.4	2.7	1.5	1.6	0.9
23	0.7	0.6	0.5	0.8	0.7	1.3	1.2	1.3	3.2	1.5	1.2	0.9
24	0.7	0.6	0.5	0.7	0.7	4.7	1.2	3.9	1.7	1.5	1.2	0.8
25	0.7	0.5	0.5	2.0	1.0	9.1	1.1	1.9	1.4	1.4	1.2	0.8
26	0.7	0.5	0.5	0.8	1.7	2.5	1.7	2.3	1.4	1.4	1.2	0.8
27	0.7	0.5	0.5	0.7	0.7	2.7	1.9	1.5	46.0	1.4	1.5	0.8
28	0.7	0.5	1.0	0.7	0.7	1.9	1.3	1.4	11.2	1.4	1.3	0.8
29	0.7	0.5	0.6	0.7	0.7	1.1	5.8	2.2	6.9	1.3	1.5	0.8
30	0.7		0.5	0.7	0.7	1.1	2.0	1.8	4.8	1.3	1.3	0.8
31	0.7		0.5		0.6		1.3	2.4		1.3		0.8
SIMULATION												
MEAN	0.8	0.7	0.6	1.7	1.2	1.9	2.1	2.2	4.1	2.0	1.5	1.0
VOL	2.1	1.6	1.5	4.5	3.2	5.0	5.5	5.8	10.6	5.3	3.9	2.6
MAX	0.9	0.7	1.1	14.5	5.6	9.1	5.8	7.4	46.1	3.6	3.8	1.2
MIN	0.7	0.4	0.5	0.5	0.6	0.7	1.0	1.2	1.3	1.3	1.1	0.8

ANNUAL MEAN 1.6 VOLUME 51.6 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 140.0 C.M.S., ON SEPTEMBER 27 AT 12

CHANNEL WATER BALANCE 0.2 M. CM. IN 51.8 INIT 0.1 FINL 0.1 OUT 51.6

RESERVOIR SURFACES 0.0 M. CM.

RIO CABRIALES AT PAITC YEAR 1953 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.8	0.6	0.5	0.4	0.7	0.8	1.1	3.5	2.6	1.7	1.8	1.2
2	0.8	0.6	0.5	0.4	0.4	0.8	5.5	1.9	2.3	1.7	1.7	1.2
3	0.8	0.4	0.5	0.4	0.4	1.3	2.6	1.7	2.1	1.7	1.8	1.1
4	0.8	0.6	0.5	0.4	0.4	0.9	1.7	3.3	4.0	1.6	4.1	1.1
5	0.8	0.6	0.5	0.4	0.4	1.7	1.4	3.5	2.2	1.6	1.8	1.1
6	0.7	0.6	0.5	0.4	0.4	3.1	1.7	1.8	1.9	1.5	1.8	1.1
7	0.7	0.6	0.5	0.4	0.4	1.5	1.3	3.6	3.6	1.5	1.7	1.1
8	0.7	0.6	0.5	0.4	0.4	0.9	1.1	1.6	3.2	1.5	1.7	1.1
9	0.7	0.6	0.5	0.4	0.4	0.8	1.1	4.0	2.0	1.5	1.6	1.0
10	0.7	0.4	0.5	0.4	4.2	0.8	1.0	1.8	1.9	4.7	1.6	1.0
11	0.7	0.5	0.5	0.4	1.5	0.8	1.0	1.9	1.8	1.7	1.6	1.0
12	0.7	0.6	0.5	0.4	2.0	0.8	1.0	5.4	1.8	1.5	1.8	1.0
13	0.7	0.6	0.5	0.4	0.6	0.7	1.0	1.9	1.7	1.5	1.6	1.0
14	0.7	0.5	0.5	0.4	1.9	1.1	5.2	3.0	1.7	1.5	1.5	1.0
15	0.7	0.5	0.5	0.4	0.7	11.5	1.9	1.9	1.7	1.4	1.5	1.0
16	0.7	0.5	0.5	0.4	1.5	2.5	2.0	2.8	1.6	1.4	1.5	1.0
17	0.7	0.5	0.5	0.4	1.9	2.2	2.0	1.7	1.6	1.4	1.4	1.0
18	0.7	0.5	0.5	0.4	7.5	5.1	1.1	3.2	2.0	1.4	1.4	0.9
19	0.7	0.5	0.4	0.4	18.6	1.2	1.1	2.2	1.7	1.3	1.4	0.9
20	0.7	0.5	0.4	0.4	1.8	3.5	6.7	1.7	1.5	2.7	1.4	0.9
21	0.7	0.5	0.4	0.4	3.0	2.0	2.1	1.6	1.5	4.7	1.3	0.9
22	0.7	0.5	0.4	0.4	3.0	1.2	1.3	1.5	1.5	7.8	1.3	0.9
23	0.6	0.5	0.4	0.8	1.0	1.3	1.2	1.5	1.4	2.4	1.3	0.9
24	0.6	0.5	0.4	1.5	0.9	1.1	3.0	1.5	1.4	4.7	1.7	0.9
25	0.6	0.5	0.4	0.5	0.8	1.0	2.2	2.7	5.0	7.4	1.3	0.9
26	0.6	0.5	0.4	0.4	1.0	1.2	1.3	3.3	1.9	3.1	1.2	0.9
27	0.6	0.5	0.4	0.4	4.6	2.8	1.2	3.8	9.0	2.2	1.2	0.9
28	0.6	0.5	1.0	0.4	2.1	1.6	1.1	2.3	2.1	2.0	1.2	0.9
29	0.6		0.5	0.4	1.9	1.1	1.1	1.6	1.9	1.9	1.2	0.8
30	0.6		0.4	4.7	0.9	1.0	2.2	13.3	1.8	1.9	1.2	0.8
31	0.6		0.4		0.8		7.0	3.3		1.8		0.8
SIMULATION												
MEAN	0.7	0.5	0.5	0.6	2.2	1.9	2.3	2.9	2.4	2.5	1.6	1.0
VOL	2.0	1.5	1.4	1.7	5.9	5.0	6.1	7.8	6.2	6.6	4.2	2.7
MAX	0.8	0.7	1.1	4.9	18.6	11.5	9.6	13.3	9.1	7.9	4.2	1.2
MIN	0.7	0.6	0.5	0.4	0.4	0.8	1.0	1.5	1.5	1.4	1.2	0.9

ANNUAL MEAN 1.6 VOLUME 51.1 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITC 74.6 C.M.S., ON MAY 18 AT 24

CHANNEL WATER BALANCE 0.0 M. CM. IN 51.1 INIT 0.1 FINL 0.1 OUT 51.1

RESERVOIR SURFACES 0.0 M. CM.

RIO CABRIALES AT PAITO YEAR 1954 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.8	0.6	0.5	0.4	0.8	0.6	3.2	7.2	1.5	2.6	3.7	2.0
2	0.8	0.6	0.5	0.4	3.8	0.6	2.1	2.2	1.5	8.2	3.5	2.0
3	0.8	0.6	0.5	0.4	0.7	2.4	1.9	2.1	1.7	6.4	3.4	2.0
4	0.8	0.6	0.5	0.4	0.5	0.8	3.6	1.9	1.6	2.9	3.2	1.9
5	0.8	0.6	0.5	0.4	0.7	2.5	2.1	1.9	6.1	2.4	3.2	1.9
6	0.8	0.6	0.5	0.4	1.3	2.2	1.7	3.8	1.7	2.3	8.5	1.8
7	0.8	0.6	0.5	0.4	0.8	7.0	2.6	2.5	1.6	7.3	4.6	1.8
8	0.8	0.6	0.5	0.4	0.6	2.5	4.3	2.8	1.6	3.7	8.4	1.8
9	0.8	0.6	0.5	0.4	0.5	6.5	2.0	1.9	2.8	3.5	3.9	1.7
10	0.8	0.6	0.5	0.4	0.5	2.3	1.7	1.8	2.6	5.7	3.6	2.2
11	0.7	0.6	0.5	0.4	0.5	4.7	2.1	1.8	2.1	4.1	3.7	1.8
12	0.7	0.6	0.5	0.4	0.5	1.1	2.7	1.8	1.7	2.9	3.3	1.7
13	0.7	0.6	0.5	0.4	0.5	1.0	5.9	2.8	1.6	2.6	3.1	1.7
14	0.7	0.6	0.5	0.4	2.0	1.8	2.3	3.3	1.6	2.5	3.0	1.6
15	0.7	0.6	0.5	0.4	1.7	1.0	1.9	3.7	3.8	10.7	2.9	1.6
16	0.7	0.6	0.5	2.5	0.6	1.1	1.8	1.9	6.5	4.8	2.9	1.6
17	0.7	0.6	0.5	0.7	0.5	4.7	1.7	1.8	4.2	3.7	2.8	1.6
18	0.7	0.6	0.5	0.4	0.5	1.7	3.0	1.8	6.3	6.9	2.7	1.5
19	0.7	0.6	0.5	0.4	0.5	1.0	5.5	1.7	2.3	5.9	2.7	1.5
20	0.7	0.6	0.5	4.2	0.5	2.9	2.9	1.7	2.1	4.3	2.6	1.5
21	0.7	0.6	0.5	0.7	0.5	5.8	2.0	1.9	2.0	7.4	2.5	1.5
22	0.7	0.5	0.5	0.4	2.0	2.1	1.8	1.7	2.7	7.1	2.5	1.4
23	0.7	0.5	0.5	0.4	3.4	1.2	1.8	1.6	2.0	5.3	2.4	1.4
24	0.7	0.5	0.5	0.4	6.3	5.1	3.0	2.4	1.9	4.1	2.4	1.4
25	0.7	0.5	0.5	0.4	2.4	1.6	2.0	2.0	1.8	3.6	2.3	1.4
26	0.7	0.5	0.4	0.4	1.3	8.1	1.7	1.6	1.8	3.4	2.3	1.4
27	0.7	0.5	0.5	0.4	0.7	7.5	1.7	3.9	1.8	8.8	2.2	1.3
28	0.7	0.5	0.4	0.4	3.0	3.0	1.6	1.9	4.1	7.7	2.2	1.3
29	0.6		0.4	5.7	0.8	2.8	1.6	1.6	2.2	5.4	2.1	1.3
30	0.6		0.4	5.2	0.7	6.5	6.8	1.6	1.8	4.4	2.1	1.3
31	0.6		0.4		0.6		3.0	1.6		3.9		1.3
SIMULATION												
MEAN	0.8	0.6	0.5	1.0	1.3	3.1	2.7	2.4	2.6	5.0	3.3	1.7
VOL	2.1	1.5	1.4	2.6	3.6	8.1	7.2	6.4	6.8	13.5	8.6	4.4
MAX	0.9	0.7	0.6	5.7	6.4	8.2	6.8	7.3	6.5	10.8	8.5	2.2
MIN	0.7	0.6	0.5	0.5	0.5	0.7	1.6	1.6	1.5	2.3	2.1	1.3

ANNUAL MEAN 2.1 VOLUME 66.2 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 29.6 C.M.S., ON OCTOBER 15 AT 14

CHANNEL WATER BALANCE -0.1 M. CM. IN 66.2 INIT 0.1 FINL 0.1 OUT 66.2

RESERVOIR SURFACES 0.0 M. CM.

RIO CABRIALES AT PAITO YEAR 1955 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	1.2	0.9	0.7	0.6	0.7	0.6	1.0	3.6	0.9	2.3	1.7	3.3
2	1.2	0.9	0.7	0.6	0.7	0.6	6.3	1.1	0.9	1.8	1.5	1.2
3	1.2	0.9	0.7	0.6	0.7	2.9	1.7	0.8	2.6	1.8	1.4	1.2
4	1.2	0.9	0.7	0.7	0.7	1.4	0.9	0.8	1.0	2.0	1.4	1.1
5	1.2	0.9	0.7	0.6	0.6	0.6	0.8	0.8	0.9	5.6	1.4	1.1
6	1.2	0.9	0.7	0.6	0.6	0.6	0.8	0.8	0.9	12.6	1.3	1.1
7	1.2	0.8	0.7	0.6	0.6	11.2	0.9	0.8	1.1	4.8	1.3	1.3
8	1.1	0.8	0.7	0.6	0.6	3.3	0.9	1.2	0.9	2.7	1.3	1.1
9	1.1	0.8	0.7	0.6	0.6	0.9	0.8	7.0	0.9	2.2	8.7	1.1
10	1.1	0.8	0.7	0.6	0.6	0.8	0.8	3.4	0.8	1.9	2.2	1.0
11	1.1	0.8	0.7	0.6	0.6	0.8	0.8	1.1	1.6	2.6	1.9	1.0
12	1.1	0.8	0.7	0.6	0.6	0.8	0.8	0.9	1.5	2.4	1.5	1.0
13	1.1	0.8	0.7	0.6	0.6	1.2	10.4	0.9	0.9	1.6	1.4	1.0
14	1.1	0.8	0.7	0.6	0.6	0.8	2.1	1.6	0.8	1.6	1.4	1.0
15	1.1	0.8	0.7	0.6	0.6	0.7	2.1	3.7	0.8	1.5	1.4	12.7
16	1.0	0.8	0.7	0.6	0.6	0.7	1.6	2.3	0.8	2.4	3.6	3.7
17	1.0	0.8	0.6	0.5	0.6	0.7	1.1	1.1	0.8	1.5	1.6	1.9
18	1.0	0.8	0.6	0.5	0.6	0.7	0.9	2.0	0.9	1.5	1.4	1.5
19	1.0	0.8	0.6	6.0	0.6	0.7	0.9	1.1	2.6	1.4	1.4	1.4
20	1.0	0.9	0.6	1.1	0.6	0.9	1.0	1.0	1.1	4.5	1.3	1.3
21	1.0	0.8	0.6	2.4	0.6	0.7	1.3	0.9	0.8	2.1	1.3	1.2
22	1.0	0.8	0.6	7.7	0.6	0.9	1.0	0.9	0.8	1.5	1.3	1.1
23	1.0	0.8	0.8	1.3	0.6	0.7	0.8	0.9	1.7	1.7	1.2	1.1
24	1.0	0.7	0.7	0.7	0.5	2.8	1.9	1.7	0.9	4.5	1.2	1.1
25	1.0	0.7	1.0	0.7	0.5	2.3	1.1	1.1	0.8	2.1	1.2	1.1
26	0.9	0.7	0.7	0.7	2.0	0.9	0.8	0.9	1.9	2.2	1.2	1.1
27	0.9	0.7	0.6	0.7	0.7	0.7	0.8	0.9	0.9	1.9	1.2	1.0
28	0.9	0.7	0.6	0.7	2.3	2.6	0.8	2.1	5.3	1.5	1.4	1.0
29	0.9		0.6	0.7	1.5	1.2	0.8	1.8	3.9	1.5	1.2	1.0
30	0.9		0.6	0.7	3.6	2.7	0.8	1.4	7.7	1.4	1.2	1.0
31	0.9		0.6		1.3		0.8	0.9		4.2		1.0
SIMULATION												
MEAN	1.1	0.8	0.7	1.2	0.9	1.6	1.6	1.6	1.6	2.7	1.8	1.7
VOL	3.0	2.1	2.0	3.1	2.4	4.2	4.2	4.4	4.2	7.3	4.6	4.6
MAX	1.2	0.9	1.1	7.7	3.7	11.3	10.4	7.0	7.7	12.6	8.7	12.7
MIN	1.0	0.0	0.7	0.6	0.6	0.7	0.8	0.8	0.8	1.5	1.2	1.0

ANNUAL MEAN 1.5 VOLUME 46.0 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 44.6 C.M.S., ON DECEMBER 15 AT 18

CHANNEL WATER BALANCE 0.0 M. CM. IN 45.9 INIT 0.1 FINL 0.1 OUT 46.0

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITC YEAR 1956 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	1.0	0.7	0.6	0.5	0.5	0.5	6.2	1.3	0.8	1.2	0.9	0.8
2	1.0	0.7	0.6	0.5	0.5	0.5	0.9	0.8	0.8	1.1	6.4	0.8
3	0.9	0.7	0.6	0.5	0.5	0.5	1.6	0.7	0.8	4.2	1.6	0.8
4	0.9	0.7	0.6	0.5	0.4	0.8	10.9	1.1	1.0	1.7	1.1	2.0
5	0.9	0.7	0.6	0.4	0.4	4.4	1.5	0.8	3.5	1.2	3.7	1.0
6	2.7	0.7	0.5	0.4	0.4	1.2	0.9	3.2	1.6	1.2	1.7	0.8
7	1.2	0.7	0.5	0.4	0.4	0.5	0.9	0.9	0.9	1.1	1.2	0.8
8	0.9	0.7	0.5	0.4	0.4	0.5	0.8	0.7	0.8	1.1	1.1	0.8
9	0.9	0.7	0.5	0.4	0.4	0.5	1.1	0.7	0.8	1.1	1.1	0.8
10	0.9	0.7	0.5	0.4	0.4	0.5	0.9	0.7	0.8	4.2	1.1	0.8
11	0.9	0.7	0.5	0.4	0.4	0.5	0.8	0.7	0.8	1.6	1.0	0.8
12	0.9	0.6	0.5	0.4	1.5	0.5	0.8	0.7	8.8	1.2	1.0	3.3
13	0.9	0.7	0.5	0.4	2.3	0.5	0.8	0.7	4.7	1.2	1.0	1.5
14	0.9	0.6	0.5	7.6	7.0	0.6	1.2	1.9	2.8	1.1	1.0	0.8
15	0.9	0.6	0.5	1.0	0.7	2.4	2.7	1.4	3.3	1.1	1.0	0.8
16	0.9	0.6	0.5	0.5	1.7	1.2	1.1	0.7	1.5	1.1	1.0	0.8
17	0.8	0.6	0.5	0.6	1.4	2.5	0.8	1.1	1.2	1.0	1.3	0.8
18	0.8	0.6	0.5	2.0	0.6	2.6	0.9	0.7	1.1	1.0	1.2	0.8
19	0.8	0.6	0.5	0.6	0.5	0.7	0.8	1.1	1.1	1.0	0.9	0.8
20	0.8	0.6	0.5	0.5	1.0	0.5	0.7	0.7	1.0	1.0	0.9	0.7
21	0.8	0.6	0.5	0.5	0.6	1.4	0.7	0.8	1.0	2.5	0.9	0.7
22	0.8	0.6	0.5	0.5	2.0	4.9	1.1	1.0	1.0	1.5	0.9	0.7
23	0.8	0.6	0.5	0.5	0.6	0.9	0.9	4.5	2.5	1.0	0.9	0.7
24	0.8	0.6	0.5	0.5	0.5	2.9	0.7	0.9	1.5	2.6	0.9	0.7
25	0.8	0.6	0.5	0.5	0.5	1.0	0.7	0.8	3.6	1.4	0.9	0.7
26	0.8	0.6	0.5	0.5	0.5	0.7	0.7	4.1	1.7	1.0	0.8	0.7
27	0.8	0.6	0.5	0.5	0.5	0.6	0.7	1.6	6.2	1.0	0.8	0.7
28	0.8	0.6	0.5	0.5	0.5	0.6	1.9	4.5	1.4	1.0	0.8	0.7
29	0.7	0.6	0.5	0.5	0.7	1.4	1.5	1.4	1.2	1.0	0.8	0.7
30	0.7		0.5	0.5	1.6	2.0	0.9	0.9	1.2	1.0	0.8	0.7
31	0.7		0.5		0.5		0.7	0.9		1.0		0.7
SIMULATION												
MEAN	1.0	0.7	0.6	0.9	1.0	1.3	1.6	1.4	2.0	1.5	1.3	1.0
VOL	2.6	1.7	1.5	2.2	2.7	3.4	4.2	3.8	5.3	3.9	3.5	2.5
MAX	2.9	0.8	0.6	7.7	7.1	5.0	10.9	4.6	8.9	4.2	6.5	3.4
MIN	0.8	0.6	0.5	0.5	0.5	0.5	0.7	0.7	0.9	1.0	0.9	0.7

ANNUAL MEAN 1.2 VOLUME 37.5 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITC 34.1 C.M.S., ON JULY 4 AT 12
CHANNEL WATER BALANCE -0.0 M. CM. IN 37.4 INIT 0.1 FINL 0.0 OUT 37.5
RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1957 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.7	0.5	0.4	0.3	0.3	1.0	1.2	1.2	1.3	0.5	8.9	0.4
2	0.6	0.5	0.4	0.3	0.3	4.8	0.3	1.4	1.6	0.5	1.3	0.4
3	0.6	0.5	0.4	0.3	0.3	1.6	0.3	0.7	2.9	4.3	0.6	0.4
4	0.6	0.5	0.4	0.3	0.3	0.4	4.2	0.3	0.5	3.0	0.5	0.4
5	0.6	0.5	0.4	0.3	0.3	0.3	0.8	0.3	0.4	0.7	2.3	0.4
6	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.9	0.4
7	0.6	0.5	0.4	0.3	0.3	0.3	0.6	0.3	0.4	0.6	0.6	0.4
8	0.5	0.5	0.4	0.3	0.3	0.3	1.2	0.3	0.4	0.6	0.5	0.4
9	0.6	0.5	0.4	0.3	0.3	2.1	1.3	0.3	0.4	0.6	0.5	0.4
10	0.6	0.5	0.4	0.3	0.3	1.1	0.4	0.3	0.4	0.6	0.5	0.4
11	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.4
12	0.6	0.5	0.4	0.3	2.2	0.6	0.3	0.3	0.4	0.5	0.5	0.4
13	0.6	0.5	0.4	0.3	4.9	0.4	0.3	0.3	3.4	0.5	0.5	0.4
14	0.6	0.5	0.4	0.3	1.4	0.3	0.3	1.1	0.9	1.0	0.5	0.4
15	0.6	0.5	0.4	0.3	0.4	2.2	0.9	0.4	0.4	0.7	0.5	0.4
16	0.5	0.5	0.4	0.3	0.3	1.2	0.6	0.3	0.4	0.5	0.5	0.4
17	0.6	0.4	0.4	0.3	0.3	0.3	0.3	3.9	0.4	0.5	0.5	0.5
18	0.6	0.4	0.4	0.3	0.3	0.3	0.3	1.7	0.4	0.5	0.5	0.5
19	0.6	0.4	0.4	0.3	0.3	0.7	1.0	0.4	0.4	0.5	0.5	0.4
20	0.6	0.4	0.4	0.3	0.3	0.4	1.0	0.3	9.4	0.5	0.5	0.3
21	0.5	0.4	0.4	0.3	0.3	0.3	4.0	0.3	1.7	0.5	0.5	0.3
22	0.5	0.4	0.4	0.3	0.3	0.3	0.6	0.3	6.0	0.5	0.4	0.3
23	0.5	0.4	0.4	0.3	0.3	0.3	0.4	4.3	1.0	0.5	0.4	0.3
24	0.5	0.4	0.4	0.3	0.3	0.3	0.3	1.8	0.6	0.5	0.4	0.3
25	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.4	2.7	0.5	0.4	0.3
26	0.5	0.4	0.4	2.8	0.3	0.3	0.3	1.5	4.1	0.5	0.4	0.3
27	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.5	1.4	0.5	0.4	0.3
28	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.6	0.5	0.4	0.3
29	0.5		0.3	0.3	0.3	0.3	0.3	1.4	0.6	0.4	0.4	0.3
30	0.5		0.3	0.3	0.3	2.8	0.3	0.7	0.6	0.4	0.4	0.3
31	0.5		0.3		0.3		0.7	0.4		0.4		0.3
SIMULATION												
MEAN	0.6	0.5	0.4	0.5	0.6	0.9	0.8	0.9	1.5	0.9	0.9	0.4
VOL	1.7	1.2	1.1	1.2	1.6	2.2	2.2	2.4	3.9	2.1	2.4	1.1
MAX	0.7	0.6	0.5	2.8	4.9	4.9	4.3	4.4	9.4	4.3	8.9	0.6
MIN	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.4

ANNUAL MEAN 0.7 VOLUME 23.2 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 28.4 C.M.S., ON NOVEMBER 1 AT 15

CHANNEL WATER BALANCE -0.0 M. CM. IN 23.2 INIT 0.0 FINL 0.0 OUT 23.2

RESERVOIR SURFACES 0.0 M. CM.

RIO CARIBALES AT PAITE YEAR 1958 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.3	0.3	0.2	0.2	4.8	0.4	1.0	0.7	2.0	1.1	1.3	0.9
2	0.3	0.3	0.2	0.2	1.5	0.4	0.7	0.6	1.3	1.1	1.2	0.9
3	0.3	0.3	0.2	0.2	0.3	5.3	0.7	0.9	5.8	1.1	1.2	0.9
4	0.3	0.2	0.2	0.2	0.2	2.3	2.2	4.4	2.1	1.0	1.2	0.9
5	0.3	0.3	0.2	0.2	0.2	0.5	1.1	0.8	6.8	2.1	1.2	0.9
6	0.3	0.2	0.2	0.2	1.6	0.5	0.7	0.7	3.8	1.1	1.2	0.9
7	0.3	0.2	0.2	0.2	3.3	0.4	0.7	0.7	2.0	1.5	1.1	0.9
8	0.3	0.2	0.2	0.2	0.7	0.4	1.6	0.7	1.7	1.2	1.1	0.8
9	0.3	0.3	0.2	0.2	0.2	2.4	2.0	0.6	1.5	1.0	1.1	0.8
10	0.3	0.3	0.2	0.2	0.2	5.1	1.0	0.6	1.4	1.0	1.1	0.8
11	0.3	0.2	0.2	0.2	0.2	1.6	0.7	1.0	2.9	1.0	1.1	0.8
12	0.3	0.2	0.2	0.2	0.2	0.6	0.7	10.2	1.6	1.0	1.0	0.8
13	0.3	0.2	0.2	0.2	0.2	0.6	2.6	2.2	1.4	2.2	1.4	0.8
14	0.3	0.2	0.2	0.2	0.8	0.6	1.1	1.2	1.3	1.1	7.5	0.8
15	0.3	0.3	0.2	0.2	1.0	0.5	0.7	1.2	1.3	1.0	1.3	0.8
16	0.3	0.2	0.2	0.2	0.4	0.5	0.7	0.9	6.9	1.6	1.2	0.8
17	0.3	0.3	0.2	0.2	0.8	0.5	0.7	0.8	1.8	1.0	1.1	0.8
18	0.3	0.3	0.3	0.2	1.8	6.0	0.6	0.8	1.5	1.0	1.3	0.8
19	0.3	0.2	0.2	4.6	4.5	3.0	1.4	0.8	1.4	1.0	1.3	0.7
20	0.3	0.3	0.2	0.5	9.3	0.8	0.9	2.3	1.4	0.9	1.1	0.7
21	0.3	0.2	0.2	0.2	2.3	0.5	0.6	1.6	1.3	0.9	1.1	0.7
22	0.3	0.2	0.2	0.2	1.4	2.3	0.6	0.8	1.3	24.6	1.1	0.7
23	0.3	0.2	0.2	0.2	2.1	0.8	0.6	0.8	1.3	4.5	1.0	0.7
24	0.3	0.3	0.3	0.2	0.5	1.0	0.6	11.8	1.2	3.1	1.0	0.7
25	0.3	0.2	0.2	0.2	1.2	0.6	0.6	2.1	1.2	2.4	1.0	0.7
26	0.3	0.2	0.2	0.2	12.8	6.0	0.9	2.8	1.9	1.9	1.0	0.7
27	0.3	0.2	0.2	0.2	2.0	1.4	1.3	1.9	1.2	1.7	1.0	0.7
28	0.3	0.2	0.2	5.0	0.6	1.4	0.8	2.5	1.2	1.5	1.0	0.7
29	0.3		0.2	0.8	0.5	0.8	3.9	1.9	1.1	1.4	1.0	0.7
30	0.3		0.2	0.2	0.4	3.2	0.9	1.2	1.1	1.4	0.9	0.7
31	0.3		0.2		0.4		0.7	4.0		1.3		0.7
SIMULATION												
MEAN	0.3	0.3	0.2	0.6	1.9	1.7	1.1	2.1	2.1	2.3	1.4	0.8
VOL	0.9	0.7	0.6	1.4	5.0	4.5	3.0	5.6	5.6	6.1	3.6	2.2
MAX	0.4	0.3	0.3	5.0	12.9	6.1	3.9	11.9	6.9	24.7	7.5	1.0
MIN	0.3	0.3	0.2	0.2	0.2	0.4	0.6	0.7	1.2	1.0	1.0	0.7

ANNUAL MEAN 1.2 VOLUME 39.3 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITE 68.9 C.M.S., ON OCTOBER 22 AT 08

CHANNEL WATER BALANCE 0.1 M. CM. IN 39.3 INIT 0.0 FINL 0.0 OUT 39.3

RESERVOIR SURFACES 0.0 M. CM.

RIO CABRIALES AT PAITC YEAR 1959 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.7	0.5	0.4	0.4	1.1	4.4	3.8	0.8	1.2	1.2	3.7	2.2
2	0.6	0.5	0.4	0.3	2.2	2.8	1.0	0.8	0.9	1.0	2.3	1.8
3	0.6	0.5	0.4	0.3	2.8	0.6	0.5	0.8	0.9	1.3	1.8	2.1
4	0.6	0.5	0.4	0.3	4.1	0.4	0.5	1.0	0.8	1.4	1.5	1.2
5	0.5	0.5	0.4	0.3	1.6	0.7	0.5	0.8	0.8	0.9	1.4	1.0
6	0.6	0.5	0.4	0.3	0.4	1.0	5.1	0.7	5.6	0.9	1.4	3.0
7	0.6	0.5	0.4	0.3	0.5	0.5	1.3	2.0	1.4	0.9	1.3	1.2
8	0.6	0.5	0.4	0.3	1.5	3.9	0.6	0.9	0.9	0.9	1.3	1.0
9	0.6	0.5	0.4	0.3	0.4	0.9	0.5	0.7	1.3	0.9	1.3	1.0
10	0.6	0.5	0.4	0.3	0.4	0.5	0.5	0.7	4.9	1.0	1.4	1.0
11	0.6	0.5	0.4	0.3	0.4	0.5	0.5	5.5	4.8	3.8	4.5	1.0
12	0.6	0.5	0.4	0.3	0.4	0.7	0.5	1.5	1.9	1.6	1.4	1.4
13	0.6	0.5	0.4	0.3	0.3	0.5	0.5	0.8	1.2	1.4	1.4	1.1
14	0.6	0.5	0.4	0.3	0.3	0.9	0.5	3.6	2.3	8.7	1.3	1.0
15	0.6	0.5	0.4	0.3	0.3	4.8	0.5	1.2	2.1	12.6	1.3	1.0
16	0.5	0.5	0.4	0.7	0.3	0.6	1.2	0.8	5.8	6.6	1.3	0.9
17	0.6	0.5	0.4	0.4	2.3	0.5	0.8	0.8	2.3	4.6	1.2	0.9
18	0.6	0.5	0.4	0.3	0.6	0.7	0.5	0.8	1.3	2.7	1.2	0.9
19	0.6	0.5	0.4	0.3	1.4	0.5	3.9	0.8	1.2	3.1	1.2	0.9
20	0.6	0.4	0.4	0.3	1.1	0.5	0.9	0.9	1.1	2.0	1.2	0.9
21	0.6	0.4	0.4	0.3	0.4	0.5	0.5	0.8	1.1	1.6	1.1	0.9
22	0.5	0.4	0.4	0.3	3.9	0.5	0.5	0.7	1.1	1.5	1.1	0.9
23	0.5	0.4	0.4	0.3	1.4	0.5	2.9	0.7	1.0	1.4	1.1	0.9
24	0.5	0.4	0.4	0.3	0.4	0.5	5.1	0.7	1.0	6.5	1.1	0.9
25	0.5	0.4	0.4	0.3	0.4	1.2	2.0	0.7	1.0	2.3	1.1	0.8
26	0.5	0.4	0.4	0.3	0.4	0.6	9.4	0.7	1.0	1.7	1.1	1.3
27	0.5	0.4	0.4	0.3	0.4	0.4	1.0	0.7	1.0	1.5	1.0	0.9
28	0.5	0.4	0.4	0.3	0.4	0.4	0.9	0.7	0.9	1.5	1.0	0.8
29	0.5		0.4	0.3	5.1	2.6	5.7	0.7	0.9	1.4	1.0	0.8
30	0.5		0.6	0.3	0.8	2.3	1.6	0.8	2.8	1.4	1.0	0.8
31	0.5		0.4		0.4		0.9	9.2		4.1		0.8
SIMULATION												
MEAN	0.6	0.5	0.4	0.4	1.2	1.2	1.8	1.4	1.9	2.7	1.5	1.2
VOL	1.7	1.2	1.2	1.0	3.3	3.2	4.9	3.8	4.8	7.3	3.9	3.2
MAX	0.7	0.6	0.6	0.8	5.1	4.8	9.4	9.2	5.9	13.6	4.6	3.0
MIN	0.6	0.0	0.4	0.3	0.4	0.5	0.5	0.7	0.8	0.9	1.0	0.9

ANNUAL MEAN 1.3 VOLUME 39.6 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITC 32.8 C.M.S., ON JULY 26 AT 02

CHANNEL WATER BALANCE -0.0 M. CM. IN 39.6 INIT C.C FINL 0.1 OUT 39.6

RESERVOIR SURFACES C.C M. CM.

RIO CARRIALES AT PAITO YEAR 1960 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.8	0.6	0.5	0.4	0.5	0.8	0.7	1.1	1.3	3.0	2.6	1.3
2	0.8	0.6	0.5	0.4	0.5	0.7	1.6	1.0	1.7	2.6	2.2	1.3
3	0.8	0.6	0.5	0.4	0.5	0.7	1.5	1.7	1.3	3.9	2.0	3.8
4	0.8	0.6	0.5	0.4	0.5	0.7	0.9	2.1	6.4	2.6	1.9	2.1
5	0.8	0.6	0.5	0.4	0.5	0.8	1.2	1.8	1.7	2.2	1.9	1.4
6	0.8	0.6	0.5	0.4	0.5	3.1	12.1	1.2	1.4	2.1	1.8	1.4
7	0.7	0.6	0.5	0.4	0.4	1.1	3.0	7.6	9.9	2.1	1.8	1.3
8	0.7	0.6	0.5	0.4	7.9	6.5	1.3	1.9	3.5	2.0	1.7	1.3
9	0.7	0.6	0.5	0.4	2.9	1.1	1.0	6.5	2.1	2.0	1.7	1.3
10	0.7	0.6	0.5	0.4	0.6	0.8	0.9	3.3	1.8	1.9	1.7	1.3
11	0.7	0.6	0.5	0.4	0.5	0.8	1.9	2.3	1.7	1.8	1.7	1.8
12	2.5	0.6	0.5	0.4	0.5	0.8	1.7	2.9	2.1	1.8	1.6	6.3
13	1.0	0.6	0.5	0.4	3.1	0.8	5.7	1.6	5.1	2.0	1.6	1.6
14	0.7	0.6	0.5	0.4	1.2	0.8	1.1	1.4	1.9	1.8	1.6	1.5
15	0.7	0.6	0.5	0.4	5.3	1.3	1.6	1.4	2.7	1.7	1.5	1.4
16	0.7	0.5	0.4	0.4	1.0	4.5	6.2	1.3	1.9	1.7	1.5	1.3
17	0.7	0.5	0.4	0.4	0.6	1.2	1.3	2.6	1.6	1.7	1.5	1.3
18	0.7	0.5	0.4	0.4	3.3	0.8	1.8	1.4	1.6	1.6	1.5	1.3
19	0.7	0.5	0.4	1.4	0.7	1.2	1.3	2.5	2.9	1.6	5.1	1.2
20	0.7	0.5	0.4	13.5	0.6	0.8	1.1	1.9	1.7	3.1	2.7	1.2
21	0.7	0.5	0.4	0.8	0.6	0.7	1.1	1.3	1.5	2.6	1.7	1.2
22	0.7	0.5	0.4	0.5	1.0	0.7	1.0	1.3	7.0	1.8	1.6	1.2
23	0.7	0.5	0.4	0.5	0.8	1.5	1.0	1.4	2.1	2.3	1.6	1.2
24	0.7	0.5	0.4	0.9	1.1	0.8	1.0	3.3	1.8	1.8	1.5	1.2
25	0.7	0.5	0.4	0.5	2.6	0.7	1.0	1.3	1.7	1.6	1.5	1.1
26	0.7	0.5	0.4	0.5	0.9	0.7	4.6	1.3	3.1	3.8	1.5	1.1
27	0.6	0.5	0.4	0.4	0.6	0.7	5.4	3.0	3.0	2.4	1.4	1.1
28	0.6	0.5	0.4	5.1	0.6	0.7	1.6	3.9	14.9	1.7	1.8	1.1
29	0.6	0.5	0.4	0.9	0.6	0.9	1.2	1.5	6.5	6.9	1.5	1.1
30	0.6		0.4	0.5	7.6	0.7	1.1	1.4	3.7	5.4	1.4	1.1
31	0.6		0.4		2.0		1.1	1.3		2.4		1.0
SIMULATION												
MEAN	0.8	0.6	0.5	1.1	1.7	1.3	2.2	2.3	3.4	2.5	2.0	1.6
VOL	2.2	1.5	1.3	2.9	4.5	3.3	6.0	6.1	8.7	6.7	5.2	4.3
MAX	2.5	0.7	0.5	13.6	7.9	6.5	12.2	7.6	15.0	6.8	5.2	6.3
MIN	0.7	0.6	0.5	0.4	0.5	0.7	0.7	1.1	1.4	1.6	1.4	1.1

ANNUAL MEAN 1.7 VOLUME 52.7 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 44.9 C.M.S., ON APRIL 20 AT 07

CHANNEL WATER BALANCE 0.0 M. CM. IN 52.7 INIT 0.1 FINL 0.1 OUT 52.7

RESERVOIR SURFACES 0.0 M. CM.

PIC CABRIALES AT PAITC YEAR 1961 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	1.0	0.8	0.6	0.5	0.4	0.4	3.4	1.4	1.2	2.0	2.4	1.0
2	1.0	0.7	0.6	0.5	0.4	0.4	1.4	4.5	1.1	1.5	1.7	1.0
3	1.0	0.7	0.6	0.5	0.4	0.4	2.9	3.0	1.1	1.9	4.0	1.0
4	1.0	0.7	0.6	0.5	0.4	0.4	0.7	4.0	1.1	1.5	2.1	1.0
5	1.0	0.7	0.6	0.5	0.4	0.4	0.6	1.2	1.1	1.1	1.2	1.0
6	1.0	0.7	0.6	0.5	0.4	1.0	0.6	1.0	2.0	1.0	1.2	1.0
7	1.0	0.7	0.6	0.5	0.4	1.4	0.5	1.6	1.8	1.0	1.2	0.9
8	1.0	0.7	0.6	0.5	0.4	0.5	0.7	2.7	1.1	1.0	1.2	1.2
9	0.9	0.7	0.6	0.5	0.4	0.4	4.3	1.2	1.1	3.3	1.1	0.9
10	0.9	0.7	0.6	0.5	0.4	0.4	0.9	1.0	1.0	1.4	1.1	0.9
11	0.9	0.7	0.6	0.5	0.4	0.4	0.5	1.4	2.1	1.0	1.3	0.9
12	0.9	0.7	0.6	0.5	0.4	0.4	0.5	6.0	1.1	4.3	1.1	0.9
13	0.9	0.7	0.6	0.5	0.4	0.4	1.9	4.0	1.0	1.3	1.1	0.9
14	0.9	0.7	0.6	0.5	0.4	1.5	1.0	2.1	2.8	1.1	1.1	0.9
15	0.9	0.7	0.6	0.5	0.4	0.5	5.2	1.2	1.1	1.3	1.0	0.9
16	0.9	0.7	0.6	0.5	0.4	4.4	1.0	3.8	1.0	1.1	1.0	0.9
17	0.9	0.7	0.5	0.5	0.4	0.9	1.1	1.9	1.0	1.0	1.9	0.8
18	0.9	0.7	0.5	0.5	0.4	0.9	0.8	1.6	1.0	1.0	1.4	0.8
19	0.8	0.7	0.5	0.4	0.4	1.4	0.5	2.3	4.4	1.0	1.8	0.8
20	0.8	0.6	0.5	0.4	0.4	2.4	0.5	1.7	1.9	1.0	1.3	0.8
21	0.8	0.6	0.5	0.4	0.4	1.8	1.6	1.2	1.1	1.9	1.0	0.8
22	0.8	0.6	0.5	0.4	0.4	0.6	1.8	1.1	1.1	2.8	1.0	0.8
23	0.8	0.6	0.5	0.4	0.4	0.4	0.6	1.1	2.6	3.2	1.0	0.8
24	0.8	0.6	0.5	0.4	3.0	0.4	0.5	1.1	1.1	1.2	1.0	0.8
25	0.8	0.6	0.5	0.4	1.1	0.4	0.5	5.3	1.2	2.0	1.7	0.8
26	0.8	0.6	0.5	0.4	0.4	0.7	0.5	5.8	1.1	1.2	4.1	0.8
27	0.8	0.6	0.5	0.4	0.4	0.5	5.5	1.7	1.0	1.1	2.0	0.7
28	0.8	0.6	0.5	0.4	0.4	0.4	5.4	1.4	3.2	1.9	1.1	0.7
29	0.8		0.5	0.4	0.4	0.5	1.2	1.3	1.9	2.9	1.1	0.7
30	0.8		0.5	0.4	0.4	2.2	5.3	1.2	1.1	1.4	1.0	0.7
31	0.8		0.5		0.4		2.0	1.2		1.1		0.7
SIMULATION												
MEAN	0.9	0.7	0.6	0.5	0.5	0.9	2.1	2.3	1.6	1.7	1.6	0.9
VOL	2.5	1.8	1.6	1.3	1.5	2.4	5.6	6.2	4.1	4.5	4.0	2.4
MAX	1.1	0.8	0.7	0.5	3.0	4.4	9.4	6.0	4.5	4.4	4.2	1.2
MIN	0.8	0.7	0.6	0.5	0.4	0.4	0.5	1.0	1.0	1.0	1.0	0.8

ANNUAL MEAN 1.2 VOLUME 37.9 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITC 29.6 C.M.S., ON JULY 30 AT 15
CHANNEL WATER BALANCE -0.0 M. CM. IN 37.8 INIT 0.1 FINL 0.1 OUT 37.9
RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1962 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.7	0.5	0.4	0.4	0.3	2.8	5.0	1.5	2.7	1.5	1.4	0.9
2	0.7	0.5	0.4	0.4	7.3	2.6	1.6	1.4	1.6	1.5	1.4	0.9
3	0.7	0.5	0.4	0.4	1.7	4.2	4.8	8.5	1.4	2.1	1.4	0.9
4	0.7	0.5	0.4	0.4	5.7	2.1	1.7	2.2	4.1	1.6	1.4	0.9
5	0.7	0.5	0.4	0.4	1.4	1.7	1.5	1.8	2.8	1.4	1.3	0.9
6	0.7	0.5	0.4	0.4	6.1	1.3	1.4	1.8	4.0	1.4	1.3	0.9
7	0.7	0.5	0.4	0.4	1.7	1.1	1.3	3.1	2.6	1.4	1.3	0.9
8	0.7	0.5	0.5	0.4	0.5	1.1	4.9	1.6	1.7	1.4	1.3	0.9
9	0.6	0.5	0.5	0.4	0.4	1.0	1.7	1.5	1.6	1.3	1.2	0.9
10	0.6	0.5	0.4	0.4	0.4	1.0	1.4	3.9	1.6	1.3	1.2	0.9
11	0.6	0.5	0.4	0.3	0.4	2.0	5.7	2.9	3.8	1.3	1.2	0.8
12	0.6	0.5	0.4	0.3	0.4	4.2	2.3	1.7	3.1	1.7	1.2	0.8
13	0.6	0.5	0.4	0.3	2.7	1.2	1.7	1.6	1.7	1.6	1.2	0.8
14	0.6	0.5	0.4	0.3	19.9	1.3	1.6	1.7	1.6	1.3	1.2	0.8
15	0.6	0.5	0.4	0.3	2.2	1.3	1.5	3.6	1.6	1.2	1.1	0.8
16	0.6	0.5	0.4	0.3	1.3	2.1	2.1	1.6	1.6	1.2	1.1	0.8
17	0.6	0.5	0.4	0.3	7.4	2.6	7.9	1.5	2.7	1.2	1.1	0.8
18	0.6	0.5	0.4	0.3	1.5	1.2	3.0	1.5	1.6	1.2	1.1	0.8
19	0.6	0.5	0.4	0.3	1.0	1.1	5.8	1.4	1.5	1.2	1.1	0.8
20	0.6	0.5	0.4	0.7	0.8	1.0	2.4	1.9	2.2	4.2	1.1	0.8
21	0.6	0.5	0.4	0.4	0.8	1.0	2.0	1.4	1.6	7.4	1.0	0.8
22	0.6	0.5	0.4	0.3	0.7	1.0	1.8	1.4	1.5	2.0	1.0	0.8
23	0.6	0.5	0.4	0.3	3.1	1.8	1.7	1.4	1.5	1.5	1.0	0.8
24	0.6	0.5	0.4	0.3	0.8	1.1	1.6	2.7	1.4	1.4	1.0	0.7
25	0.6	0.5	0.4	0.3	0.7	1.0	2.7	2.0	1.4	4.7	1.0	0.7
26	0.6	0.5	0.4	0.3	3.8	1.4	2.9	1.4	2.1	1.9	1.0	0.7
27	0.6	0.5	0.4	0.3	1.5	9.6	2.6	4.6	3.2	1.5	1.0	0.7
28	0.6	0.4	0.4	0.3	0.8	2.9	1.7	2.6	3.4	1.4	1.0	0.7
29	0.6		0.4	0.3	4.8	1.7	1.6	1.6	1.9	1.4	1.3	0.7
30	0.5		0.4	0.3	4.1	1.3	1.6	1.5	1.6	2.8	1.2	0.7
31	0.5		0.4		13.4		1.5	2.1		2.0		0.7
SIMULATION												
MEAN	0.7	0.5	0.5	0.4	3.2	2.0	2.7	2.3	2.2	2.0	1.2	0.9
VOL	1.8	1.3	1.3	1.1	8.6	5.3	7.1	6.1	5.8	5.2	3.2	2.3
MAX	0.8	0.6	0.8	0.8	20.0	9.6	8.0	8.5	4.2	7.5	1.5	1.0
MIN	0.6	0.5	0.4	0.4	0.4	1.0	1.3	1.4	1.5	1.2	1.0	0.8

ANNUAL MEAN 1.5 VOLUME 49.0 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 61.1 C.M.S., ON MAY 14 AT 11

CHANNEL WATER BALANCE 0.0 M. CM. IN 49.0 INIT 0.1 FINL 0.0 OUT 49.0

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1963 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.7	0.6	0.5	0.6	0.4	0.7	1.0	2.9	1.5	2.8	2.6	1.7
2	0.7	0.6	0.5	6.0	0.4	0.6	2.2	11.2	11.1	2.7	2.5	1.6
3	0.8	0.5	0.5	0.7	0.4	10.7	1.3	6.8	3.0	2.6	2.4	1.6
4	0.7	0.5	0.5	0.4	2.3	11.7	1.0	2.7	18.3	2.6	2.3	1.6
5	0.7	0.5	0.5	0.4	5.1	4.5	1.0	2.7	7.0	2.5	2.2	1.6
6	0.7	0.5	0.5	0.4	1.5	2.5	1.0	3.4	4.9	2.4	2.2	1.5
7	0.7	0.5	0.5	1.5	0.5	1.5	1.0	2.4	3.7	6.3	4.0	1.5
8	0.7	0.5	0.4	0.5	5.4	1.2	1.0	1.6	3.0	5.1	2.6	1.5
9	0.7	0.5	0.4	0.4	5.0	1.5	0.9	3.0	2.6	2.7	2.2	1.5
10	0.7	0.5	0.4	0.4	1.7	1.1	0.9	1.6	3.0	2.5	2.9	1.4
11	0.6	0.5	0.4	0.4	2.1	1.8	0.9	1.5	2.4	2.4	2.4	1.4
12	0.6	0.5	0.4	0.4	0.6	1.2	0.9	1.4	11.5	2.4	2.1	1.4
13	0.6	0.5	0.4	0.4	0.5	3.2	0.9	1.4	3.9	2.3	2.0	1.4
14	0.6	0.5	0.4	0.4	0.5	1.2	3.7	7.3	3.2	2.2	2.0	1.3
15	0.6	0.5	0.4	0.4	0.5	1.0	1.1	2.6	4.6	2.2	2.1	1.3
16	0.5	0.5	0.4	0.4	0.5	1.0	2.6	1.8	2.8	2.1	5.0	1.3
17	0.6	0.5	0.4	0.4	0.6	1.8	1.3	2.5	10.0	2.1	2.2	1.3
18	0.6	0.5	0.4	0.4	3.2	2.3	2.1	2.0	38.3	9.3	2.1	1.3
19	0.5	0.5	0.4	0.4	3.9	1.1	1.2	5.3	12.6	11.9	2.8	1.3
20	0.6	0.5	0.4	0.4	1.0	1.0	1.0	1.9	8.6	3.9	2.9	1.2
21	0.6	0.5	0.4	0.4	1.0	4.8	3.1	1.7	6.3	3.3	2.1	1.2
22	0.6	0.5	0.4	0.4	1.2	2.5	1.4	1.6	5.0	2.9	2.0	1.2
23	0.6	0.5	0.4	0.4	0.6	1.1	6.1	1.5	5.6	2.7	1.9	1.2
24	0.5	0.5	0.4	0.8	0.6	1.1	3.2	1.5	3.9	3.1	1.9	1.2
25	0.6	0.5	0.4	0.5	2.0	5.3	1.5	1.4	3.6	2.5	1.9	1.2
26	0.5	0.5	0.4	1.0	4.6	1.6	1.2	4.7	3.3	2.4	1.8	1.1
27	0.6	0.5	0.4	0.4	7.0	1.2	1.1	4.0	3.2	2.3	1.8	1.1
28	0.6	0.5	0.4	2.3	0.9	1.1	1.1	2.6	3.1	5.2	1.8	1.1
29	0.6		0.4	0.6	0.7	1.1	1.1	1.8	3.0	6.8	1.7	1.1
30	0.6		0.4	0.4	0.7	1.1	1.0	1.6	2.9	3.1	1.7	1.1
31	0.6		0.4		0.7		1.0	1.6		2.7		1.1
SIMULATION												
MEAN	0.7	0.5	0.5	0.8	1.9	2.5	1.6	3.0	6.6	3.6	2.4	1.4
VOL	1.9	1.4	1.3	2.1	5.1	6.4	4.3	7.9	17.0	9.6	6.2	3.7
MAX	0.8	0.6	0.5	6.1	7.1	11.7	6.1	11.2	38.3	11.9	5.0	1.7
MIN	0.6	0.0	0.4	0.4	0.4	0.7	0.9	1.4	1.5	2.1	1.8	1.1

ANNUAL MEAN 2.1 VOLUME 66.8 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 97.6 C.M.S., ON SEPTEMBER 18 AT 08

CHANNEL WATER BALANCE 0.1 M. CM. IN 66.9 INIT 0.0 FINL 0.1 OUT 66.8

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1964 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	1.1	0.8	0.6	0.5	0.5	1.3	4.2	0.9	1.0	2.1	1.2	1.0
2	1.1	0.8	0.6	0.5	0.5	0.7	1.2	0.9	1.0	1.5	1.2	1.0
3	1.0	0.8	0.6	0.5	0.5	0.5	5.0	0.9	1.3	1.3	1.1	1.0
4	1.0	0.8	0.6	0.5	0.5	0.5	1.1	1.1	2.6	23.5	1.1	1.0
5	1.0	0.8	0.6	0.5	0.5	0.5	0.8	1.0	1.1	13.5	1.1	1.0
6	1.0	0.8	0.6	0.5	0.5	2.0	0.8	5.0	1.7	6.0	1.1	0.9
7	1.0	0.8	0.6	0.5	0.5	1.7	1.7	1.1	1.0	4.1	1.1	0.9
8	1.0	0.8	0.6	0.5	0.5	0.7	1.8	1.2	4.8	2.9	1.0	0.9
9	1.0	0.7	0.6	1.8	0.5	0.5	0.8	1.8	2.1	2.3	1.0	0.9
10	1.0	0.7	0.6	0.8	0.5	0.5	0.9	1.5	1.3	1.9	1.0	0.9
11	1.0	0.7	0.6	0.5	0.5	0.5	4.1	4.2	1.5	4.5	8.2	0.9
12	1.0	0.7	0.6	0.5	0.5	0.5	5.3	1.1	1.4	2.3	8.6	0.9
13	0.9	0.7	0.6	0.5	0.5	0.5	1.2	1.0	1.6	1.6	2.1	0.9
14	0.9	0.7	0.6	0.5	0.5	0.5	0.9	1.0	1.1	1.5	1.5	0.9
15	0.9	0.7	0.6	0.5	0.5	0.5	0.9	0.9	1.0	1.5	1.4	0.9
16	0.9	0.7	0.6	0.5	0.5	2.3	0.9	0.9	1.0	2.4	1.4	0.8
17	0.9	0.7	0.6	0.5	0.4	4.9	0.8	0.9	2.4	1.8	1.3	0.8
18	0.9	0.7	0.6	0.5	0.4	1.6	0.8	0.9	1.5	1.4	1.3	0.8
19	0.9	0.7	0.6	0.5	0.4	0.6	3.7	0.9	1.1	1.4	1.3	0.8
20	0.9	0.7	0.6	0.5	0.4	0.6	1.1	0.9	1.1	1.4	1.2	0.8
21	0.9	0.7	0.6	0.5	0.4	3.9	1.9	0.9	1.4	1.3	1.2	0.8
22	0.9	0.7	0.6	0.5	1.0	1.0	5.4	0.8	4.3	1.3	1.2	0.8
23	0.9	0.7	0.6	0.7	3.7	0.6	1.2	0.8	1.5	1.3	1.1	0.8
24	0.8	0.7	0.6	3.8	3.5	1.3	1.1	15.5	1.1	1.3	1.1	0.8
25	0.8	0.7	0.6	0.6	0.6	3.0	1.1	2.5	1.1	1.5	1.1	0.8
26	0.8	0.7	0.6	0.9	0.5	3.8	1.2	1.6	1.0	2.0	1.1	0.8
27	0.8	0.7	0.5	0.6	2.1	1.4	1.0	2.2	1.4	1.3	1.1	0.7
28	0.8	0.7	0.5	0.5	0.9	0.7	0.9	1.3	1.6	2.1	1.1	0.7
29	0.8	0.7	0.5	0.5	4.8	0.7	2.7	1.1	1.1	1.3	1.1	0.7
30	0.8		0.5	0.5	1.6	0.6	1.3	1.1	9.5	1.2	1.0	0.7
31	0.8		0.5		0.6		0.9	1.5		1.2		0.7
SIMULATION												
MEAN	1.0	0.8	0.6	0.7	1.0	1.3	1.9	1.9	1.9	3.1	1.7	0.9
VOL	2.6	1.9	1.7	1.9	2.6	3.5	5.0	5.1	5.0	8.3	4.5	2.4
MAX	1.1	0.8	0.7	3.8	4.8	5.0	5.5	15.5	9.5	23.6	8.7	1.1
MIN	0.8	0.7	0.6	0.5	0.5	0.6	0.8	0.9	1.0	1.2	1.1	0.8

ANNUAL MEAN 1.4 VOLUME 44.5 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 82.7 C.M.S., ON OCTOBER 4 AT 20

CHANNEL WATER BALANCE = 0.1 M. CM. IN 44.6 INIT 0.1 FINL 0.0 OUT 44.5

RESERVOIR SURFACES 0.0 M. CM.

RIO CABRIALES AT PAITC YEAR 1965 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.7	0.9	0.5	0.4	0.3	1.3	8.5	1.8	2.9	2.1	1.3	1.2
2	0.7	0.6	0.5	0.4	3.6	1.3	3.5	11.6	1.6	5.0	5.3	1.2
3	0.7	0.6	0.5	0.4	1.2	2.9	1.3	2.6	1.5	2.4	1.6	1.2
4	0.7	0.6	0.5	0.4	0.4	2.7	1.0	6.3	6.4	1.9	4.5	1.1
5	0.7	0.6	0.5	0.4	0.3	3.6	0.9	3.2	2.3	1.8	2.5	3.0
6	0.7	0.4	0.5	0.4	0.3	1.4	1.1	2.3	1.9	1.7	3.7	2.4
7	0.7	0.6	0.5	0.4	1.3	2.8	0.9	1.6	1.7	1.7	4.5	1.3
8	0.7	0.5	0.5	0.4	0.5	2.0	0.8	2.5	2.9	1.6	2.6	1.2
9	0.7	0.5	0.4	0.4	0.3	0.7	0.8	1.4	2.4	1.6	1.7	1.2
10	0.7	0.5	0.4	0.4	0.3	0.6	0.8	1.3	4.5	1.5	2.4	1.2
11	0.7	0.5	0.4	0.4	0.3	1.9	0.7	1.2	1.9	1.5	1.9	1.1
12	0.6	0.5	0.4	0.4	0.3	0.7	0.7	1.2	1.7	2.0	1.6	1.1
13	0.6	0.5	0.4	0.4	0.3	2.6	7.9	1.2	1.6	1.5	1.6	1.1
14	0.6	0.5	0.4	0.4	0.3	1.3	1.4	1.1	7.2	4.6	1.5	1.1
15	0.6	0.5	0.4	0.4	0.3	0.6	0.9	1.1	4.4	2.7	1.5	1.1
16	0.6	0.5	0.4	0.4	0.3	0.6	0.9	1.1	2.3	1.9	1.5	1.1
17	0.6	0.5	0.4	0.4	0.3	0.6	0.8	1.1	2.0	1.6	2.2	1.1
18	0.6	0.5	0.4	0.4	0.3	0.8	0.8	1.2	1.9	1.6	1.7	1.0
19	0.6	0.5	0.4	0.3	0.3	0.6	0.8	4.4	1.8	2.8	1.4	1.0
20	0.6	0.5	0.4	0.3	0.3	1.0	0.8	2.9	1.7	1.9	1.4	1.0
21	0.6	0.5	0.4	0.3	0.3	4.6	0.8	8.6	2.2	1.5	1.4	1.0
22	0.6	0.5	0.4	0.3	0.3	0.7	0.9	1.9	1.7	2.0	1.4	1.0
23	0.6	0.5	0.4	0.3	2.0	0.6	0.8	1.7	2.1	1.5	1.3	1.0
24	0.6	0.5	0.4	0.3	1.7	1.4	0.7	3.7	1.6	1.5	1.3	1.0
25	0.6	0.5	0.4	0.3	0.4	6.9	1.9	1.5	1.5	1.5	1.3	1.0
26	0.6	0.5	0.4	0.3	0.4	0.8	2.0	1.7	1.5	1.4	1.3	0.9
27	0.6	0.5	0.4	0.3	7.1	2.7	1.7	6.2	1.5	1.4	1.3	0.9
28	0.6	0.5	0.4	0.3	1.7	1.4	1.0	2.1	1.5	1.4	1.2	0.9
29	0.6		0.4	0.3	5.6	1.2	0.8	3.6	11.2	1.3	1.4	0.9
30	0.6		0.4	0.3	1.7	0.8	2.4	2.1	2.6	1.3	1.2	0.9
31	2.2		0.4		3.7		6.9	3.1		1.3		0.9
SIMULATION												
MEAN	0.7	0.6	0.5	0.4	1.2	1.8	1.8	2.9	2.8	2.0	2.0	1.2
VOL	1.9	1.4	1.3	1.1	3.3	4.5	4.9	7.7	7.2	5.3	5.3	3.2
MAX	2.2	1.0	0.5	0.4	7.2	7.0	8.6	11.6	11.2	5.0	5.3	3.0
MIN	0.6	0.5	0.4	0.4	0.4	0.6	0.8	1.1	1.5	1.4	1.3	0.9

ANNUAL MEAN 1.5 VOLUME 47.2 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITC 29.7 C.M.S., ON SEPTEMBER 29 AT 11

CHANNEL WATER BALANCE -0.0 M. CM. IN 47.1 INIT 0.0 FINL 0.1 OUT 47.2

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1966 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	3.2	0.7	0.6	0.5	0.4	1.7	4.6	1.5	1.7	1.7	2.4	1.3
2	1.3	0.7	0.6	0.5	0.4	0.5	1.9	1.5	4.8	12.0	2.0	1.3
3	0.9	0.7	0.6	0.5	0.4	1.2	1.5	8.2	2.0	6.4	2.2	1.2
4	0.9	0.7	0.6	0.5	0.4	6.2	1.4	3.1	1.7	3.2	1.9	1.2
5	0.9	0.7	0.5	0.4	0.4	0.6	1.4	6.5	1.7	2.7	1.8	1.2
6	0.9	0.7	0.5	0.4	3.9	0.9	1.3	2.4	1.6	2.9	1.8	1.2
7	0.9	0.7	0.5	0.4	1.3	0.6	1.3	2.1	1.6	2.2	1.7	1.2
8	0.9	0.7	0.5	0.4	0.4	0.5	1.3	1.9	1.5	2.1	1.7	6.7
9	0.9	0.7	0.5	0.4	0.4	9.2	1.9	2.7	7.6	2.6	1.7	19.8
10	0.9	0.6	0.5	0.4	0.4	11.4	1.4	1.9	3.2	2.1	1.7	8.6
11	0.8	0.6	0.5	0.4	1.8	1.9	4.7	1.7	5.5	1.9	4.2	5.3
12	0.9	0.6	0.5	0.4	0.6	1.1	1.7	1.6	3.9	1.9	2.0	3.5
13	0.8	0.6	0.5	0.4	0.4	1.0	1.4	1.6	4.4	1.8	1.7	2.8
14	0.8	0.6	0.5	0.4	0.4	0.8	4.3	1.5	2.4	1.8	1.7	2.4
15	0.8	0.6	0.5	0.4	0.4	1.0	1.8	5.4	2.1	1.7	1.6	2.2
16	0.8	0.6	0.5	0.4	0.4	0.8	9.4	1.9	2.0	1.7	1.6	2.0
17	0.8	0.6	0.5	0.4	0.6	7.2	2.5	2.3	3.6	1.7	1.6	1.9
18	0.9	0.6	0.5	0.4	2.4	17.5	1.9	1.7	2.4	2.1	1.5	1.8
19	0.9	0.6	0.5	0.4	0.5	6.7	3.1	2.5	2.7	1.7	1.7	1.8
20	0.8	0.6	0.5	0.4	0.4	3.8	1.9	1.6	2.0	1.6	1.5	1.7
21	0.8	0.6	0.5	0.4	0.4	13.1	1.6	1.5	1.9	4.6	1.5	1.7
22	0.8	0.6	0.5	1.7	3.9	3.9	1.5	1.5	1.9	2.6	1.5	1.7
23	0.8	0.6	0.5	0.5	1.4	2.6	1.5	3.4	3.9	1.8	1.4	1.6
24	0.7	0.6	0.5	0.4	0.5	2.7	3.9	1.6	2.2	1.7	1.4	1.6
25	0.7	0.6	0.5	0.4	0.4	4.7	7.6	1.5	3.3	1.6	1.4	1.6
26	0.7	0.6	0.5	0.4	0.4	3.9	2.9	1.5	2.1	6.5	1.4	1.5
27	0.7	0.6	0.5	0.4	2.2	2.0	2.3	2.7	1.9	2.7	1.3	1.5
28	0.7	0.6	0.5	0.4	0.7	1.6	2.0	2.1	1.8	3.5	1.3	1.5
29	0.7		0.5	0.4	2.6	1.4	1.7	1.5	1.8	2.0	1.5	1.4
30	0.7		0.5	0.4	1.3	2.6	1.7	5.4	1.8	1.9	1.3	1.4
31	0.7		0.5		2.2		1.6	2.7		5.1		1.4
SIMULATION												
MEAN	0.9	0.7	0.6	0.5	1.1	3.9	2.6	2.6	2.7	3.0	1.8	2.8
VOL	2.5	1.5	1.5	1.3	3.0	10.0	6.9	7.0	7.1	7.9	4.6	7.6
MAX	3.2	0.7	0.6	1.7	3.9	17.6	9.5	8.3	7.6	12.1	4.2	19.9
MIN	0.7	0.6	0.5	0.4	0.4	0.6	1.3	1.5	1.6	1.7	1.4	1.2

ANNUAL MEAN 1.9 VOLUME 61.1 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 62.7 C.M.S., ON DECEMBER 9 AT 15

CHANNEL WATER BALANCE 0.1 M. CM. IN 61.2 INIT 0.1 FINL 0.1 OUT 61.1

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIZALES AT PAITC YEAR 1967 HYDROCOMP FL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	1.4	0.9	0.7	2.9	12.7	0.7	2.5	2.3	5.9	4.1	1.9	1.9
2	1.4	0.9	0.7	6.8	1.1	0.7	1.3	2.6	1.9	3.0	1.8	1.4
3	1.3	0.9	0.7	1.5	0.8	0.6	5.5	1.9	3.4	2.5	1.8	1.2
4	1.3	0.9	0.7	0.7	0.8	0.6	1.5	2.0	1.6	2.3	2.2	1.9
5	1.3	0.9	0.7	0.7	0.8	0.6	1.2	2.0	1.5	2.1	1.8	1.3
6	1.3	0.9	0.7	0.7	0.7	0.6	1.1	1.3	1.5	2.0	1.7	1.2
7	1.3	0.9	0.7	0.7	0.7	0.6	9.5	1.3	1.4	2.0	1.6	1.2
8	1.2	0.9	0.7	0.7	0.7	0.6	2.3	2.8	11.4	1.9	5.0	2.3
9	1.2	0.9	0.7	0.7	0.7	10.5	1.5	8.1	9.0	1.9	2.7	1.4
10	1.2	0.9	0.7	0.7	2.7	1.5	1.4	2.1	7.3	1.8	1.8	1.2
11	1.2	0.8	0.7	0.7	0.8	0.8	1.3	1.6	3.3	2.7	1.8	1.2
12	1.2	0.9	0.7	0.6	0.7	0.7	2.1	1.5	4.7	3.4	1.7	1.2
13	1.1	0.8	0.7	1.2	0.7	0.7	2.6	1.4	2.7	1.9	1.7	1.2
14	1.1	0.8	0.7	8.5	0.7	0.7	5.5	1.4	2.4	1.8	1.6	1.1
15	1.1	0.9	0.6	0.9	0.7	0.7	3.2	1.4	3.5	1.8	1.6	1.1
16	1.1	0.8	0.6	0.7	0.7	1.4	4.8	1.3	2.4	1.8	1.6	1.1
17	1.1	0.8	0.6	0.7	0.7	0.9	2.0	1.3	2.2	1.7	1.5	1.1
18	1.1	0.9	0.6	0.7	0.7	0.7	1.6	1.6	2.1	3.2	1.5	1.1
19	1.1	0.8	0.6	0.7	0.7	1.5	1.5	1.7	2.0	2.0	1.5	1.3
20	1.0	0.8	0.6	0.7	0.7	12.0	1.4	5.0	2.0	3.0	1.5	1.1
21	1.0	0.8	0.6	0.7	0.7	1.2	1.4	3.7	2.1	1.8	1.4	1.1
22	1.0	0.8	0.6	0.7	0.6	1.0	1.3	1.5	1.9	1.7	1.4	1.0
23	1.0	0.8	0.6	0.7	0.6	0.9	1.3	1.4	1.9	1.7	1.4	1.0
24	1.0	0.7	0.6	0.7	0.6	0.9	1.3	1.4	1.8	1.7	1.4	1.0
25	1.0	0.7	0.6	0.6	0.6	3.2	1.4	1.7	1.8	4.8	1.4	1.0
26	1.0	0.7	0.6	0.6	0.6	1.0	1.9	1.4	5.8	1.9	1.3	1.0
27	1.0	0.7	0.6	0.6	0.6	0.9	1.4	1.3	2.3	8.1	1.3	1.0
28	1.0	0.7	1.2	0.6	4.7	0.9	2.3	7.2	1.9	6.0	1.3	1.0
29	1.0		0.7	0.6	1.5	1.9	1.5	1.9	1.8	2.5	1.3	1.0
30	0.9		0.6	1.3	0.7	1.3	1.3	1.5	12.6	2.2	1.2	0.9
31	0.9		0.6		0.7		2.4	1.4		2.0		0.9
SIMULATION												
MEAN	1.2	0.8	0.7	1.3	1.4	2.0	2.4	2.3	3.6	2.7	1.8	1.3
VOL	3.2	2.1	1.9	3.5	3.7	5.3	6.3	6.1	9.3	7.2	4.6	3.4
MAX	1.4	1.0	1.2	8.6	12.7	12.0	9.6	8.1	12.6	8.1	5.0	2.3
MIN	1.0	0.0	0.6	0.7	0.7	0.7	1.2	1.3	1.5	1.7	1.3	1.0

ANNUAL MEAN 1.8 VOLUME 56.4 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITC 36.5 C.M.S., ON JUNE 5 AT 14

CHANNEL WATER BALANCE 0.0 M. CM. IN 56.4 INIT 0.1 FINL 0.1 OUT 56.4

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITO YEAR 1968 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.9	0.7	0.6	0.5	0.5	2.3	0.8	1.1	3.4	4.6	1.7	0.9
2	0.9	0.7	0.6	0.5	0.5	3.2	0.8	0.9	2.3	1.8	1.5	0.9
3	0.9	0.7	0.6	0.5	0.5	0.8	0.7	10.2	1.8	2.1	1.3	0.9
4	0.9	0.7	0.6	0.5	0.9	1.2	0.7	1.1	1.5	1.6	4.0	0.9
5	0.9	0.7	0.6	0.5	0.9	3.4	1.2	0.9	8.0	1.8	1.9	0.9
6	0.9	0.7	0.6	0.5	0.5	0.9	0.9	2.8	1.9	1.5	1.4	0.9
7	0.9	0.7	0.5	0.5	0.5	1.3	0.7	0.8	1.5	1.5	1.3	0.9
8	0.9	0.7	0.5	0.5	0.5	1.4	0.7	0.8	1.4	1.6	1.3	0.9
9	0.9	0.7	0.5	0.5	0.5	0.8	0.7	0.7	1.3	1.4	1.3	0.8
10	0.8	0.7	0.5	0.4	0.5	1.5	0.6	0.9	1.2	5.2	1.2	0.8
11	0.8	0.7	0.5	0.4	0.5	1.0	0.8	2.0	1.2	4.3	1.5	0.8
12	0.8	0.6	0.5	0.4	0.5	1.2	0.7	2.0	1.1	2.1	1.2	0.8
13	0.8	0.6	0.5	0.4	5.1	0.7	0.6	0.9	2.9	1.7	1.2	0.8
14	0.8	0.6	0.5	0.4	0.9	0.7	0.6	0.7	1.2	1.6	1.2	0.8
15	0.8	0.6	0.5	0.6	0.5	0.6	0.6	4.4	1.1	1.5	1.2	0.8
16	0.8	0.6	0.5	0.5	0.5	0.6	0.6	2.0	1.1	1.5	1.1	0.8
17	0.8	0.6	0.5	0.4	0.5	2.6	0.6	1.3	9.4	1.5	1.1	0.8
18	0.9	0.6	0.5	0.4	0.5	5.6	0.9	0.9	2.4	1.4	1.1	0.8
19	0.8	0.6	0.5	0.4	1.8	2.3	1.1	1.4	1.7	1.4	1.1	0.8
20	0.8	0.6	0.5	0.4	0.7	0.8	0.7	0.9	1.5	3.3	1.1	0.7
21	0.9	0.6	0.5	0.4	0.6	0.8	0.6	0.8	1.3	3.6	1.1	0.7
22	0.8	0.6	0.5	0.4	2.1	0.7	0.6	0.8	9.9	1.6	1.0	0.7
23	0.8	0.6	0.5	0.4	1.7	0.7	5.3	0.8	2.5	3.8	1.0	0.7
24	0.7	0.6	0.6	4.6	0.6	2.3	1.5	0.8	5.9	1.9	1.0	0.7
25	0.7	0.6	0.5	8.7	0.5	0.8	0.8	0.7	2.3	1.6	1.0	0.7
26	0.7	0.6	0.5	1.0	0.5	0.7	0.9	0.7	1.9	1.5	1.0	0.7
27	0.7	0.6	0.5	0.5	0.5	1.0	0.7	0.7	2.0	1.5	1.0	0.7
28	0.7	0.6	0.5	0.5	4.8	1.0	0.6	11.7	3.0	1.4	1.0	0.7
29	0.7	0.6	0.9	1.7	1.6	0.8	0.6	3.0	2.0	1.4	0.9	0.7
30	0.7		0.6	0.7	2.3	1.2	1.0	1.2	1.9	1.4	0.9	0.7
31	0.7		0.5		1.7		0.8	11.9		1.3		0.7
SIMULATION												
MEAN	0.9	0.7	0.6	1.0	1.2	1.5	1.0	2.3	2.7	2.1	1.3	0.8
VOL	2.3	1.7	1.6	2.6	3.1	3.8	2.6	6.2	7.1	5.7	3.5	2.2
MAX	1.0	0.7	0.9	8.7	5.2	5.7	5.3	11.9	9.9	5.3	4.0	1.0
MIN	0.8	0.6	0.5	0.5	0.5	0.7	0.6	0.8	1.2	1.4	1.0	0.7

ANNUAL MEAN 1.3 VOLUME 42.3 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 34.8 C.M.S., ON AUGUST 31 AT 11

CHANNEL WATER BALANCE -0.0 M. CM. IN 42.2 INIT 0.1 FINL 0.0 OUT 42.3

RESERVOIR SURFACES 0.0 M. CM.

RIO CABRIALES AT PAITO YEAR 1969 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.7	0.5	0.4	0.4	0.3	0.3	3.4	2.9	1.4	0.7	1.4	1.5
2	0.7	0.5	0.4	0.4	0.3	0.3	1.6	0.9	1.2	0.6	1.4	1.2
3	0.7	0.5	0.4	0.4	0.3	0.3	1.4	3.4	0.8	1.5	1.3	1.5
4	0.7	0.5	0.4	0.4	0.3	0.7	0.6	5.7	0.8	0.8	1.3	1.2
5	0.6	0.5	0.4	0.4	0.3	0.4	0.5	1.8	0.7	0.6	1.3	1.2
6	0.6	0.5	0.4	0.4	0.3	0.3	0.4	0.6	0.7	0.6	1.2	1.2
7	0.6	0.5	0.4	0.4	0.3	0.3	3.3	1.5	0.7	13.8	2.0	1.2
8	0.6	0.5	0.4	0.3	0.3	2.3	0.8	2.6	0.7	11.4	5.6	1.1
9	0.6	0.5	0.4	0.3	0.3	1.8	0.4	0.7	0.7	5.7	2.3	1.1
10	0.6	0.5	0.4	0.3	5.1	0.4	0.4	0.6	2.4	2.9	1.7	1.1
11	0.6	0.5	0.4	0.3	0.8	0.3	1.5	1.3	2.4	2.1	1.4	1.1
12	0.6	0.5	0.4	0.3	0.6	0.5	3.9	4.8	1.0	1.6	1.3	1.1
13	0.6	0.5	0.4	0.3	0.3	1.0	0.8	4.0	0.7	1.6	5.7	1.0
14	0.6	0.5	0.4	0.3	0.3	0.4	0.4	4.6	0.7	1.3	1.8	1.0
15	0.6	0.5	0.4	0.3	0.3	0.3	0.4	1.2	1.7	2.3	1.5	3.1
16	0.6	0.5	0.4	0.3	0.3	0.3	0.6	0.8	1.5	2.1	1.4	1.7
17	0.6	0.5	0.4	0.3	0.3	0.3	0.6	0.7	1.9	3.6	2.4	1.1
18	0.6	0.5	0.4	0.3	0.3	0.3	0.4	0.7	1.0	1.7	1.5	1.1
19	0.6	0.5	0.4	0.3	0.3	1.7	0.4	0.9	0.7	1.1	1.3	1.0
20	0.6	0.5	0.4	0.3	0.3	0.8	0.4	1.8	0.7	1.1	6.5	1.0
21	0.6	0.5	0.4	0.3	0.3	0.4	1.2	0.8	0.7	4.0	2.6	1.0
22	0.6	0.5	0.4	0.3	2.1	1.0	1.5	0.7	0.7	2.2	1.9	1.0
23	0.6	0.5	0.4	0.3	1.8	6.6	0.4	0.7	0.7	4.2	1.7	1.0
24	0.6	0.5	0.4	0.3	0.4	2.1	0.4	0.7	2.2	3.7	1.5	1.0
25	0.6	0.5	0.4	0.3	0.3	1.5	0.4	1.3	0.8	1.5	1.4	0.9
26	0.6	0.4	0.4	0.3	0.3	0.5	1.8	1.0	0.7	5.8	1.9	0.9
27	0.5	0.4	0.4	0.3	0.3	0.8	1.2	5.2	0.7	2.4	1.6	0.9
28	0.5	0.4	0.4	0.3	0.3	0.4	1.2	0.9	0.7	1.6	1.3	0.9
29	0.5		0.4	0.3	0.5	0.4	0.7	3.1	0.7	1.5	1.3	0.9
30	0.5		0.4	0.3	0.4	0.4	0.4	1.3	0.7	3.4	1.7	0.9
31	0.5		0.4		0.3		0.4	0.8		1.6		0.9
SIMULATION												
MEAN	0.6	0.5	0.5	0.4	0.7	0.9	1.1	1.9	1.1	2.9	2.1	1.2
VOL	1.7	1.3	1.2	1.0	1.8	2.5	2.9	5.1	2.8	7.8	5.4	3.2
MAX	0.7	0.6	0.5	0.4	5.2	6.6	4.0	5.8	2.5	13.9	6.6	3.1
MIN	0.6	0.5	0.4	0.4	0.3	0.3	0.4	0.6	0.7	0.7	1.3	0.9

ANNUAL MEAN 1.2 VOLUME 36.8 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 54.0 C.M.S., ON OCTOBER 7 AT 18

CHANNEL WATER BALANCE 0.0 M. CM. IN 36.9 INIT 0.0 FINL 0.1 OUT 36.8

RESERVOIR SURFACES 0.0 M. CM.

RIO CABRIALES AT PAITO YEAR 1970 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.9	0.6	0.5	0.4	0.4	4.7	2.0	1.7	1.1	1.1	5.8	1.4
2	0.9	0.6	0.5	0.4	0.4	0.8	1.1	1.3	1.2	1.1	1.7	1.0
3	0.8	0.6	0.5	0.4	0.4	0.5	0.6	2.2	7.1	1.1	1.2	0.9
4	0.8	0.6	0.5	0.4	0.4	0.7	0.6	4.2	7.6	1.1	1.1	1.9
5	0.9	0.6	0.5	0.4	0.4	0.7	0.5	0.9	2.3	1.1	1.1	5.4
6	0.8	0.6	0.5	0.4	0.4	0.5	0.6	0.8	4.3	1.1	2.6	1.7
7	0.8	0.6	0.5	0.5	0.3	1.6	0.5	0.8	2.2	1.0	2.1	3.8
8	0.8	0.6	0.5	2.4	0.3	1.0	0.6	7.3	1.9	1.5	1.1	1.2
9	0.8	0.6	0.5	0.5	0.3	0.5	0.5	1.6	1.7	1.3	1.1	1.1
10	0.9	0.6	0.5	0.4	8.1	0.7	0.6	1.0	1.5	1.0	1.1	1.1
11	0.8	0.6	0.5	0.4	0.8	0.5	3.3	1.3	1.5	1.0	1.1	1.1
12	0.8	0.6	0.5	0.4	0.6	0.5	1.8	2.1	1.5	1.0	1.0	1.1
13	0.7	0.6	0.5	0.4	1.7	0.5	1.5	1.5	1.6	1.0	1.0	1.1
14	0.7	0.6	0.5	0.4	1.1	0.5	1.0	4.3	1.4	2.8	1.0	1.0
15	0.7	0.6	0.5	0.4	1.6	1.8	4.8	2.2	1.3	1.6	2.2	1.0
16	0.7	0.6	0.5	0.4	5.6	2.6	1.7	1.1	3.5	1.0	1.7	1.0
17	0.7	0.5	0.5	0.4	0.6	1.2	1.4	1.0	2.1	1.0	1.0	1.0
18	0.7	0.5	0.4	0.4	0.5	0.5	2.9	1.2	1.4	1.0	1.0	1.0
19	0.7	0.5	0.4	0.4	0.5	2.1	1.9	1.1	1.3	1.0	1.0	1.0
20	0.7	0.5	0.4	0.4	0.5	1.3	0.8	1.0	1.3	5.5	1.0	1.0
21	0.7	0.5	0.4	0.4	0.4	1.3	0.9	1.0	1.3	2.5	1.0	0.9
22	0.7	0.5	0.4	0.4	0.4	1.0	0.8	1.7	1.3	1.1	1.0	0.9
23	0.7	0.5	0.4	0.4	0.4	0.6	0.7	1.7	1.2	1.1	0.9	0.9
24	0.7	0.5	0.4	0.4	0.4	0.5	1.3	8.2	1.2	1.1	0.9	0.9
25	0.7	0.5	0.4	0.4	0.6	0.5	1.1	1.5	1.3	1.0	1.9	0.9
26	0.7	0.5	0.4	0.4	1.1	2.7	0.7	1.3	1.5	1.0	3.8	0.9
27	0.7	0.5	0.4	0.4	1.8	1.2	0.7	1.1	1.2	3.4	1.0	0.9
28	0.6	0.5	0.4	0.4	6.5	0.6	0.7	2.6	1.2	1.7	1.0	0.9
29	0.6		0.4	0.4	0.8	0.6	0.7	2.5	1.9	1.1	1.0	0.9
30	0.6		0.4	0.4	0.5	0.9	1.6	1.9	1.3	1.1	1.4	0.8
31	0.6		0.4		0.5		3.9	1.1		2.0		0.8
SIMULATION												
MEAN	0.8	0.6	0.5	0.5	1.3	1.2	1.4	2.1	2.1	1.5	1.5	1.3
VOL	2.1	1.5	1.4	1.3	3.4	3.0	3.9	5.6	5.4	4.0	4.0	3.5
MAX	0.9	0.7	0.6	2.4	8.1	4.8	4.9	8.3	7.6	5.6	5.9	5.4
MIN	0.7	0.6	0.5	0.4	0.4	0.5	0.6	0.9	1.1	1.0	1.0	0.9

ANNUAL MEAN 1.2 VOLUME 39.2 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITO 27.0 C.M.S., ON SEPTEMBER 3 AT 21

CHANNEL WATER BALANCE -0.0 M. CM. IN 39.1 INIT 0.1 FINL 0.1 OUT 39.2

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITC YEAR 1971 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.8	0.6	0.5	0.4	0.6	0.7	0.6	1.3	0.6	0.7	0.7	0.6
2	0.8	0.6	0.5	0.4	0.5	0.7	0.6	0.6	0.5	0.7	4.4	0.6
3	0.8	0.6	0.5	0.4	0.5	0.7	0.6	0.6	0.5	0.7	2.2	0.6
4	0.8	0.6	0.5	0.4	0.5	0.7	0.6	0.6	0.5	0.7	0.9	0.6
5	0.9	0.6	0.5	0.4	0.5	0.7	0.6	0.6	0.5	0.7	0.8	0.6
6	0.8	0.6	0.5	0.4	0.5	0.7	1.9	0.6	0.5	0.7	0.7	1.0
7	0.8	0.6	0.5	0.4	0.5	0.7	2.2	0.6	4.0	0.7	0.7	1.7
8	0.8	0.6	0.5	0.4	0.5	0.7	0.7	0.6	1.1	0.7	0.7	0.6
9	0.7	0.6	0.5	0.4	0.5	0.6	3.3	2.3	0.6	0.7	2.3	0.6
10	0.7	0.6	0.5	0.4	0.5	0.9	5.7	2.4	0.6	0.7	1.6	0.5
11	0.7	0.6	0.5	0.4	0.5	1.1	0.8	0.7	0.6	0.7	0.8	0.5
12	0.7	0.6	0.5	0.4	0.6	0.7	0.7	0.6	0.6	1.8	0.7	0.5
13	0.7	0.6	0.5	0.4	0.7	0.7	0.7	1.4	0.6	1.2	0.7	0.5
14	0.7	0.5	0.5	0.4	0.6	0.8	0.6	0.7	0.5	0.9	0.7	0.5
15	0.7	0.5	0.5	0.4	0.5	0.6	5.0	0.8	0.5	2.3	0.7	0.5
16	0.7	0.5	0.5	2.7	0.4	0.6	1.5	1.1	15.4	5.4	0.7	0.5
17	0.7	0.5	0.5	1.9	0.8	0.6	0.8	0.6	2.0	1.5	0.7	0.5
18	0.7	0.5	0.5	0.6	1.0	0.6	0.7	0.6	1.0	0.8	0.7	0.5
19	0.7	0.5	0.5	4.3	5.4	0.6	0.7	0.6	2.9	0.8	0.7	0.5
20	0.7	3.5	0.5	5.2	14.6	0.6	0.7	0.8	3.1	0.7	0.7	0.5
21	0.7	0.8	0.5	3.3	3.4	0.6	1.0	0.8	1.1	0.7	0.6	0.5
22	0.7	0.5	0.5	0.6	4.0	0.6	1.0	0.6	0.8	0.7	0.6	0.5
23	0.7	0.6	0.5	0.5	4.2	0.6	1.0	0.6	0.8	0.7	0.6	0.5
24	0.6	0.6	0.5	0.5	1.0	0.6	0.9	0.6	1.7	0.7	0.6	0.5
25	0.6	0.6	0.4	0.5	0.9	3.7	0.7	1.3	1.2	0.7	0.6	0.5
26	0.6	0.5	0.4	0.5	0.8	0.8	0.7	1.5	0.8	4.3	0.6	0.5
27	0.6	0.5	0.4	0.5	0.8	1.7	0.7	0.8	0.8	1.0	0.6	0.5
28	0.6	0.5	0.4	0.5	0.8	1.9	0.8	0.8	0.8	0.8	0.6	0.5
29	0.6		0.4	1.8	0.7	0.6	0.6	0.6	0.8	0.7	0.6	0.5
30	0.6		0.4	1.3	1.7	0.6	0.6	0.6	0.8	0.7	0.6	0.5
31	0.6		0.4		1.0		1.1	0.6		0.7		0.5
SIMULATION												
MEAN	0.8	0.7	0.5	1.1	1.7	0.9	1.3	0.9	1.6	1.2	1.0	0.6
VOL	2.0	1.9	1.4	2.8	4.6	2.3	3.4	2.4	4.1	3.2	2.5	1.7
MAX	0.9	3.5	0.6	5.3	16.6	3.7	5.8	2.5	15.5	5.5	4.4	1.8
MIN	0.7	0.0	0.5	0.4	0.5	0.6	0.6	0.6	0.6	0.7	0.6	0.5

ANNUAL MEAN 1.0 VOLUME 32.2 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITC 46.5 C.M.S., ON MAY 19 AT 24

CHANNEL WATER BALANCE 0.0 M. CM. IN 32.2 INIT 0.1 FINL 0.0 OUT 32.2

RESERVOIR SURFACES 0.0 M. CM.

RIO CARRIALES AT PAITC YEAR 1972 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.5	0.4	0.4	0.3	0.3	0.4	0.4	1.7	1.2	1.1	0.7	0.5
2	0.5	0.4	0.3	0.3	21.0	0.4	0.9	1.0	5.7	2.7	0.7	0.5
3	0.4	0.4	0.3	0.3	4.9	0.4	1.3	1.0	1.1	0.9	0.7	0.5
4	0.4	0.4	0.3	0.3	0.9	0.4	0.4	0.6	7.0	0.9	0.7	0.5
5	0.4	0.4	0.3	0.3	2.5	0.3	0.4	0.6	3.7	1.7	2.9	0.5
6	0.4	0.4	0.3	0.3	0.7	0.3	0.4	2.0	1.3	0.9	1.1	0.5
7	0.4	0.4	0.3	0.3	0.5	0.3	0.4	3.8	1.0	2.0	0.7	0.5
8	0.4	0.4	0.3	0.8	0.5	0.3	1.8	0.7	0.8	1.4	0.7	0.5
9	0.4	0.4	0.3	1.1	0.5	0.3	2.4	0.6	0.7	0.9	0.7	0.5
10	0.4	0.4	0.3	0.3	0.5	0.3	2.7	0.9	0.7	0.8	0.7	0.5
11	0.4	0.3	0.3	0.3	0.5	0.5	1.2	2.0	0.7	0.8	0.7	0.5
12	0.4	0.3	0.3	0.3	0.5	0.4	2.3	2.3	0.7	0.8	0.6	0.5
13	0.6	0.3	0.3	0.3	0.4	5.0	3.6	0.7	0.7	0.8	0.6	0.5
14	0.6	0.3	0.3	0.4	0.4	0.7	0.5	1.3	0.7	0.8	0.6	0.5
15	0.4	0.3	0.3	1.0	0.4	1.9	0.5	0.7	0.7	1.4	0.6	0.5
16	0.4	0.3	0.3	1.7	0.4	1.9	0.9	0.6	0.6	0.8	0.6	0.5
17	0.4	0.3	0.3	0.4	0.4	4.1	0.6	0.6	0.6	0.8	0.6	0.5
18	0.4	0.3	0.3	0.3	0.6	0.5	4.3	0.6	0.6	0.7	0.6	0.5
19	0.4	0.3	3.3	0.3	1.5	0.4	5.9	0.6	0.8	0.7	0.6	0.5
20	0.4	0.3	0.4	0.3	0.5	0.4	1.6	0.5	0.9	0.7	0.6	0.5
21	0.4	0.3	0.3	1.6	0.4	0.4	0.6	0.9	0.6	2.2	0.6	0.5
22	0.4	0.3	0.3	0.5	0.4	0.4	0.5	2.0	0.6	1.0	0.8	0.5
23	0.4	0.3	0.3	0.3	0.4	0.5	0.5	1.4	2.4	2.2	0.6	0.4
24	0.4	0.3	0.3	0.3	0.4	0.5	2.3	1.5	12.7	0.8	0.6	0.4
25	0.4	0.3	0.3	0.3	0.4	0.4	0.6	0.6	1.2	0.7	0.6	0.4
26	0.4	0.3	0.3	0.3	0.4	0.4	0.5	1.6	0.9	0.7	0.6	0.4
27	0.4	0.3	3.5	0.4	0.4	0.4	0.5	1.7	2.6	0.7	0.9	0.4
28	0.4	0.3	3.6	0.9	0.4	0.4	2.2	0.6	1.5	0.7	1.3	0.4
29	0.7	2.6	0.4	0.3	0.4	0.4	2.6	0.6	0.9	0.7	0.6	0.4
30	0.8		0.3	0.3	0.4	0.4	0.6	0.6	0.9	0.7	0.6	0.4
31	0.4		0.3		0.4		1.0	0.6		0.7		0.4
SIMULATION												
MEAN	0.5	0.5	0.7	0.5	1.4	0.8	1.5	1.2	1.9	1.1	0.8	0.5
VOL	1.3	1.2	1.9	1.4	3.8	2.2	4.0	3.1	4.8	3.0	2.1	1.4
MAX	0.8	0.4	3.6	1.7	21.1	5.1	5.9	3.9	12.7	2.8	2.9	0.6
MIN	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.6	0.7	0.7	0.6	0.5

ANNUAL MEAN 1.0 VOLUME 30.1 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITC 73.4 C.M.S., ON MAY 2 AT 08

CHANNEL WATER BALANCE 0.1 M. CM. IN 30.1 INIT 0.0 FINL 0.0 OUT 30.1

RESERVOIR SURFACES 0.0 M. CM.

RIO CABRIALES AT PAITC YEAR 1973 HYDROCOMP PL/1 72/12/01

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1	0.4	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.5	0.9	0.7	0.6
2	0.4	0.3	0.3	0.2	0.3	0.2	0.3	0.3	1.4	2.1	0.7	0.6
3	0.4	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.5	1.3	0.7	0.6
4	0.4	0.3	0.3	0.2	0.3	0.2	0.3	1.4	0.5	0.9	0.7	0.6
5	0.4	0.3	0.3	0.2	2.6	0.2	0.4	4.0	1.6	0.7	0.7	0.6
6	0.4	0.3	0.3	0.2	3.4	0.2	0.3	2.9	1.8	0.7	0.6	0.6
7	0.4	0.3	0.3	0.2	0.4	0.2	0.3	0.6	1.1	1.3	1.3	0.6
8	0.4	0.3	0.3	0.2	0.3	0.2	0.3	0.3	1.3	3.2	1.5	0.6
9	0.4	0.3	0.3	0.2	0.3	0.2	0.9	0.3	0.7	0.8	0.7	7.0
10	0.4	0.3	0.3	0.2	0.3	1.0	1.8	0.3	2.3	0.7	0.6	1.9
11	0.4	0.3	0.3	0.2	0.3	1.1	0.3	0.3	2.1	1.4	0.6	0.7
12	0.4	0.3	0.3	0.2	0.3	1.2	0.3	0.3	0.9	1.0	0.7	0.6
13	0.4	0.3	0.3	0.2	0.3	2.1	0.3	1.1	0.5	0.7	0.8	0.6
14	0.4	0.3	0.3	0.2	0.3	2.5	0.3	2.6	0.5	4.4	2.0	0.6
15	0.4	0.3	0.3	0.2	0.3	0.3	0.3	13.6	0.5	0.9	1.1	0.6
16	0.4	0.3	0.3	0.2	1.5	0.2	0.3	2.3	1.1	5.0	4.1	0.6
17	0.4	0.3	0.3	0.2	0.4	0.2	0.5	0.5	19.9	1.0	1.3	0.6
18	0.4	0.3	0.3	0.2	0.3	1.3	0.3	0.4	1.8	0.8	1.8	0.6
19	0.4	0.3	0.3	0.2	0.3	6.9	0.3	0.4	1.0	0.8	1.1	0.6
20	0.4	0.3	0.3	0.2	0.3	5.5	4.1	2.7	0.9	1.0	0.7	0.6
21	0.4	0.3	0.2	1.1	0.3	0.4	4.0	1.2	1.0	2.8	0.7	0.6
22	0.4	0.3	0.2	14.3	0.3	0.3	0.4	7.6	1.1	0.9	0.7	0.6
23	0.4	0.3	0.2	2.3	0.2	1.8	0.3	1.3	0.8	0.8	0.7	0.6
24	0.4	0.3	0.2	0.4	0.2	1.8	0.7	0.5	0.9	0.8	0.7	0.6
25	0.4	0.3	0.2	0.3	0.2	0.4	0.9	0.5	1.0	0.8	0.7	0.5
26	0.4	0.3	0.2	0.3	0.2	0.6	0.3	0.5	0.7	0.8	0.7	0.5
27	0.3	0.3	0.2	0.3	0.2	0.7	0.3	0.9	0.7	0.7	0.6	0.5
28	0.3	0.3	0.2	0.3	0.2	0.5	0.3	2.5	1.1	0.7	0.6	0.5
29	0.3		0.2	0.3	0.2	0.3	0.3	1.2	1.0	0.7	0.6	0.5
30	0.3		0.2	0.3	0.2	0.3	0.3	0.5	0.7	0.7	0.6	0.5
31	0.3		0.2		0.2		0.3	0.5		0.7		0.5
SIMULATION												
MEAN	0.4	0.4	0.3	0.9	0.5	1.1	0.7	1.7	1.7	1.3	1.0	0.9
VOL	1.1	0.9	0.8	2.2	1.4	2.9	1.8	4.6	4.4	3.6	2.6	2.3
MAX	0.5	0.4	0.3	14.4	3.4	7.0	4.2	13.7	19.9	5.0	4.2	7.0
MIN	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.5	0.7	0.7	0.6

ANNUAL MEAN 0.5 VOLUME 28.8 MILLION CUBIC METERS

MAXIMUM DISCHARGE AT PAITC 53.5 C.M.S., ON SEPTEMBER 17 AT 04

CHANNEL WATER BALANCE 0.0 M. CM. IN 28.8 INIT 0.0 FINL 0.0 OUT 28.8

RESERVOIR SURFACES 0.0 M. CM.

CHANNEL SIMULATION ENDS JANUARY 1 74

****

RIO CARRIALES
BARBULA
FRECUENCIA DE GASTOS MAXIMOS ANUALES

****

CALCULO DE FRECUENCIAS
METODO DE GUMBEL

ANOS DE REGISTRO 41

DATOS HISTORICOS

1.80	2.10	1.90	4.30	2.00	2.80	2.00	1.90	2.30	3.40
1.80	2.00	5.00	2.40	2.00	2.50	3.30	25.90	1.60	21.60
3.50	1.90	2.30	1.70	1.30	4.50	2.40	2.40	1.40	3.10
14.30	10.90	1.70	4.80	1.90	2.00	2.50	1.60	2.00	3.60
2.10									

VALOR MEDIO 4.0

DESVIACION STD 5.1

TR	VALOR	Q/Q(2.3)
2.3	4.2	1.00
5.0	8.3	1.99
10.0	11.7	2.79
25.0	16.0	3.82
50.0	19.1	4.57
100.0	22.3	5.32

****

RIO CARRIALES
RETOBO
FRECUENCIA DE GASTOS MAXIMOS ANUALES

****

CALCULO DE FRECUENCIAS
METODO DE GUMBEL

ANOS DE REGISTRO 41

DATOS HISTORICOS

3.00	4.00	3.50	5.10	3.60	4.90	3.60	3.20	4.40	6.00
3.10	4.80	8.40	4.20	3.50	4.30	5.70	43.00	2.80	36.30
4.80	3.20	4.00	3.00	2.40	7.40	4.00	4.30	2.50	5.50
22.80	17.90	3.10	7.90	3.30	3.40	4.40	2.90	3.40	5.60
3.70									

VALOR MEDIO 6.8

DESVIACION STD 8.5

T°	VALOR	Q/Q(2.3)
2.3	7.0	1.00
5.0	13.8	1.97
10.0	19.4	2.77
25.0	26.4	3.77
50.0	31.7	4.51
100.0	36.8	5.25

****

RIO CABRIALES
GUAPARO
FRECUENCIA DE GASTOS MAXIMOS ANUALES

****

CALCULO DE FRECUENCIAS
METODO DE GUMBEL

ANOS DE REGISTRO 41

DATOS HISTORICOS

12.30	16.60	14.90	29.40	16.50	16.00	14.70	15.60	16.40	26.90
11.60	18.30	23.30	16.30	15.20	21.10	21.60	73.50	13.10	70.20
27.40	11.80	16.60	13.60	10.20	30.40	13.40	16.70	10.60	24.90
44.90	37.20	12.60	25.80	13.20	13.20	18.80	11.90	16.40	28.50
16.40									

VALOR MEDIO 21.4

DESVIACION STD 13.8

TR	VALOR	Q/Q(2.3)
2.3	21.8	1.00
5.0	32.9	1.51
10.0	42.0	1.92
25.0	53.4	2.45
50.0	61.9	2.83
100.0	70.3	3.22

ANEXO N°6 (PAG 3)

****

RIO CARRIALES
PAEZ
FRECUENCIA DE GASTOS MAXIMOS ANUALES

****

CALCULO DE FRECUENCIAS
METODO DE GUMBEL

ANOS DE REGISTRO 41

DATOS HISTORICOS

27.40	38.70	35.20	65.30	40.90	33.20	33.10	39.20	36.90	61.20
27.10	42.70	41.70	35.90	33.80	51.40	44.20	102.10	32.60	124.60
58.00	25.20	35.70	32.60	24.30	48.70	28.70	40.20	25.20	60.90
69.40	55.10	28.90	46.50	30.70	31.10	41.30	27.20	40.50	66.40
40.20									

VALOR MEDIO 44.0

DESVIACION STD 20.1

TR	VALOR	Q/Q(2.3)
2.3	44.6	1.00
5.0	60.8	1.36
10.0	74.0	1.66
25.0	90.7	2.03
50.0	103.0	2.31
100.0	115.3	2.58

ANEXO N°6 (PAG4)

****

RIO CABRIALES
SAMANES
FRECUENCIA DE GASTOS MAXIMOS ANUALES

****

CALCULO DE FRECUENCIAS
METODO DE GUMBEL

ANOS DE REGISTRO 41

DATOS HISTORICOS

32.00	43.00	43.70	84.40	51.50	37.00	43.50	44.00	45.30	74.50
31.90	52.60	51.90	38.20	42.10	60.50	58.20	119.90	44.40	123.00
74.50	29.60	44.40	38.20	26.80	67.10	33.10	46.60	30.60	75.10
87.50	75.40	32.50	59.70	37.80	35.90	54.50	31.10	52.60	87.60
50.80									

VALOR MEDIO 53.5

DESVIACION STD 22.8

TP	VALOR	Q/Q(2.3)
2.3	54.2	1.00
5.0	72.6	1.34
10.0	87.5	1.62
25.0	106.5	1.97
50.0	120.5	2.22
100.0	134.5	2.48

ANEXO N°6 (PAG.5)

****

RIO CABRIALES
PAITO
FRECUENCIA DE GASTOS MAXIMOS ANUALES

****

CALCULO DE FRECUENCIAS
METODO DE GUMBEL

ANOS DE REGISTRO 41

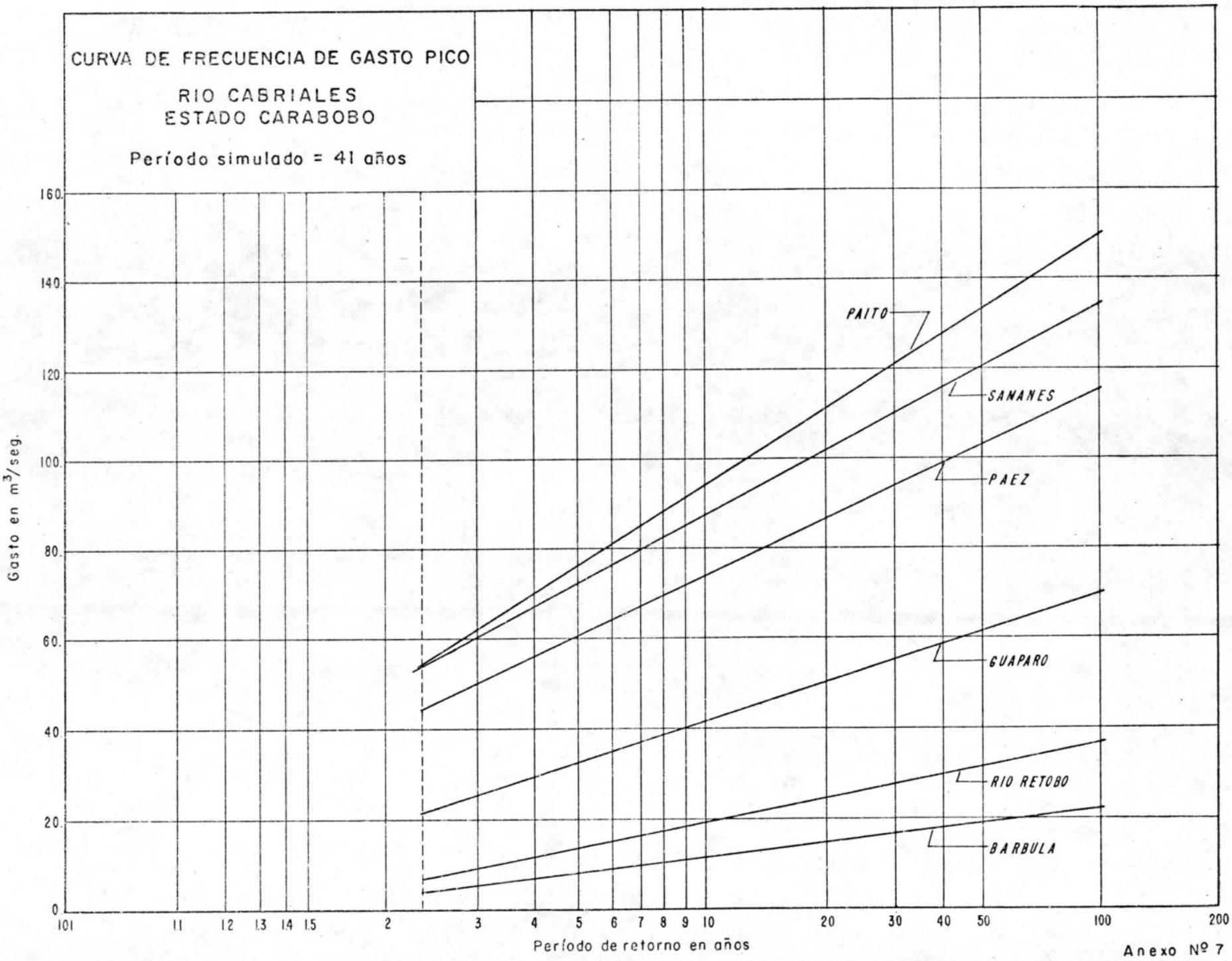
DATOS HISTORICOS

28.20	42.70	40.20	86.60	42.10	38.80	41.10	44.30	47.60	73.20
28.50	51.00	54.50	38.80	41.70	54.10	59.50	149.70	40.20	140.00
74.60	29.60	44.60	34.10	28.40	68.80	32.80	46.90	29.60	61.10
97.60	82.70	29.70	62.70	36.50	34.80	54.00	27.00	46.50	73.40
53.90									

VALOR MEDIO 53.5

DESVIACION STD 27.2

TR	VALOR	Q/Q(2.3)
2.3	54.3	1.00
5.0	76.2	1.40
10.0	94.1	1.73
25.0	116.7	2.15
50.0	133.4	2.46
100.0	150.0	2.76


CURVA DE FRECUENCIA DE GASTO PICO
RIO CABRIALES
ESTADO CARABOBO
Período simulado = 41 años
Gasto en m³/seg.
Período de retorno en años
PAITO
SAMANES
PAEZ
GUAPARO
RIO RETOBO
BARBULA
0
20
40
60
80
100
120
140
160
1.01
1.1
1.2
1.3
1.4
1.5
2
3
4
5
6
7
8
9
10
20
30
40
50
100
200

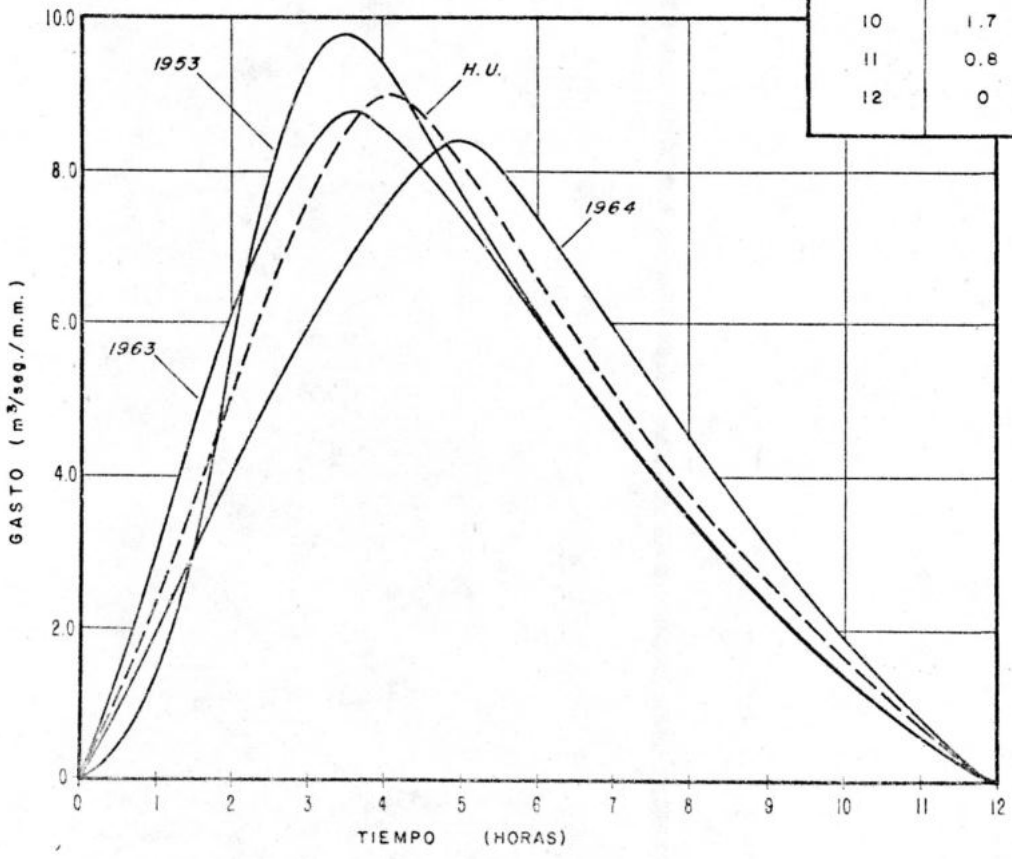
Anexo Nº 7

HIDROGRAMA UNITARIO

RIO CABRIALES EN EL PAITO

(Area 190 Km^2)

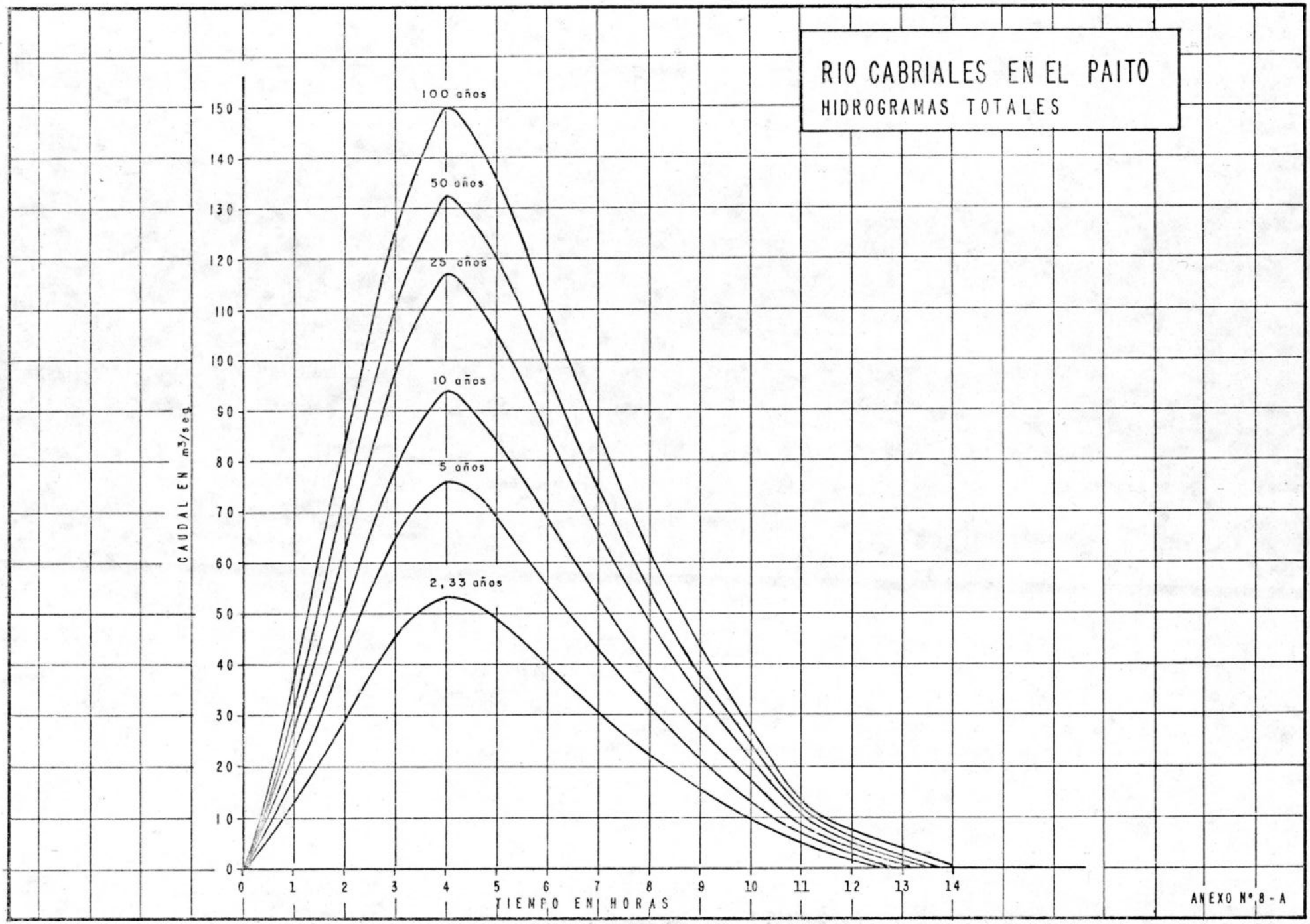
HORA	GASTO
0	0
1	2.3
2	5.0
3	7.6
4	9.0
5	8.1
6	6.6
7	5.1
8	3.7
9	2.6
10	1.7
11	0.8
12	0



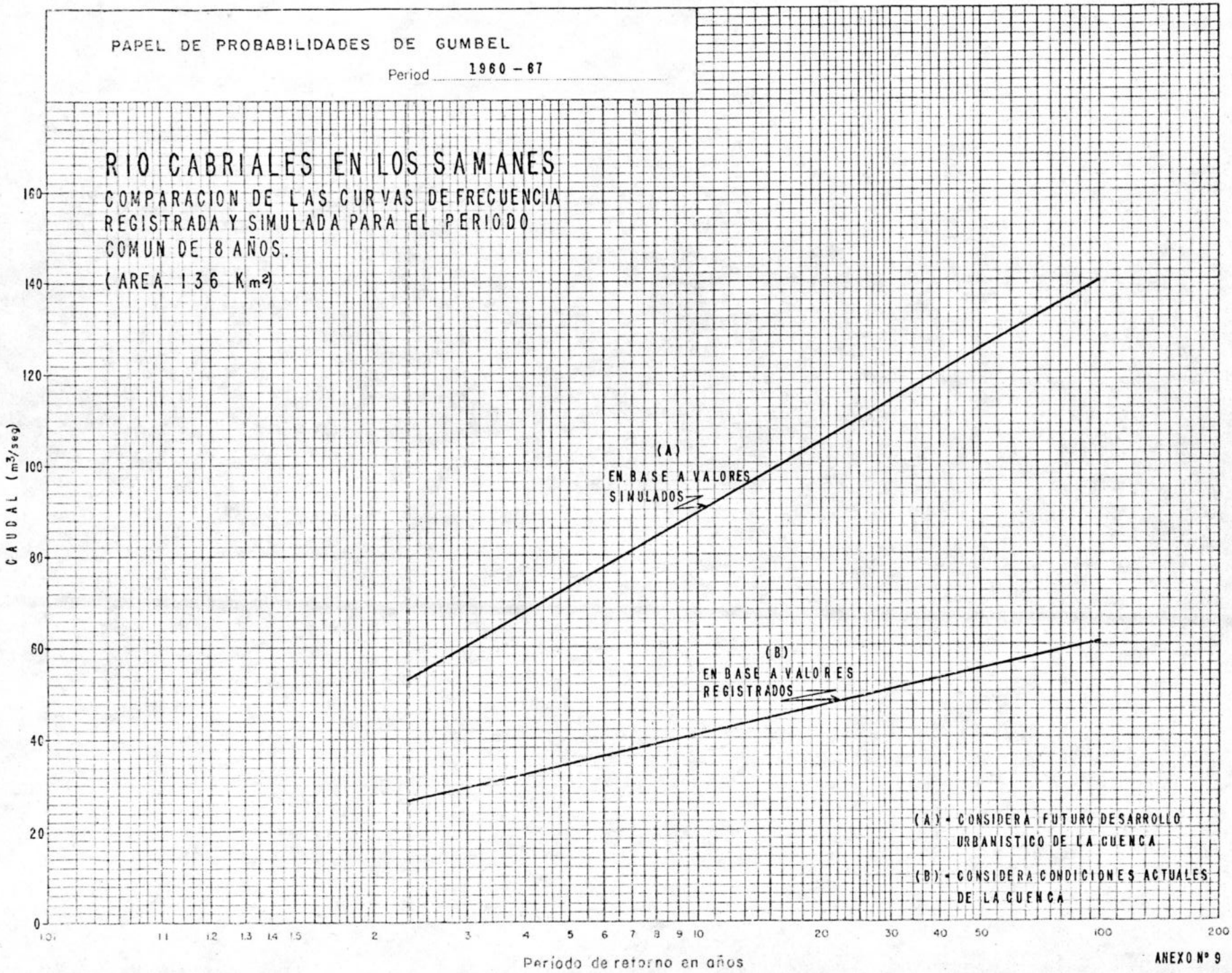
ANEXO Nº 8

RIO CABRIALES EN EL PAITO

HIDROGRAMAS TOTALES



ANEXO N° 8 - A


PAPEL DE PROBABILIDADES DE GUMBEL
Period 1960 – 67
RIO CABRIALES EN LOS SAMANES
COMPARACION DE LAS CURVAS DE FRECUENCIA REGISTRADA Y SIMULADA PARA EL PERIODO COMUN DE 8 AÑOS.
(AREA 136 Km²)
CAUDAL (m³/seg)
0
20
40
60
80
100
120
140
160
(A)
EN BASE A VALORES SIMULADOS
(B)
EN BASE A VALORES REGISTRADOS
(A) = CONSIDERA FUTURO DESARROLLO URBANISTICO DE LA CUENCA
(B) = CONSIDERA CONDICIONES ACTUALES DE LA CUENCA
1.1 1.2 1.3 1.4 1.5 2 3 4 5 6 7 8 9 10 20 30 40 50 100 200
Periodo de retorno en años

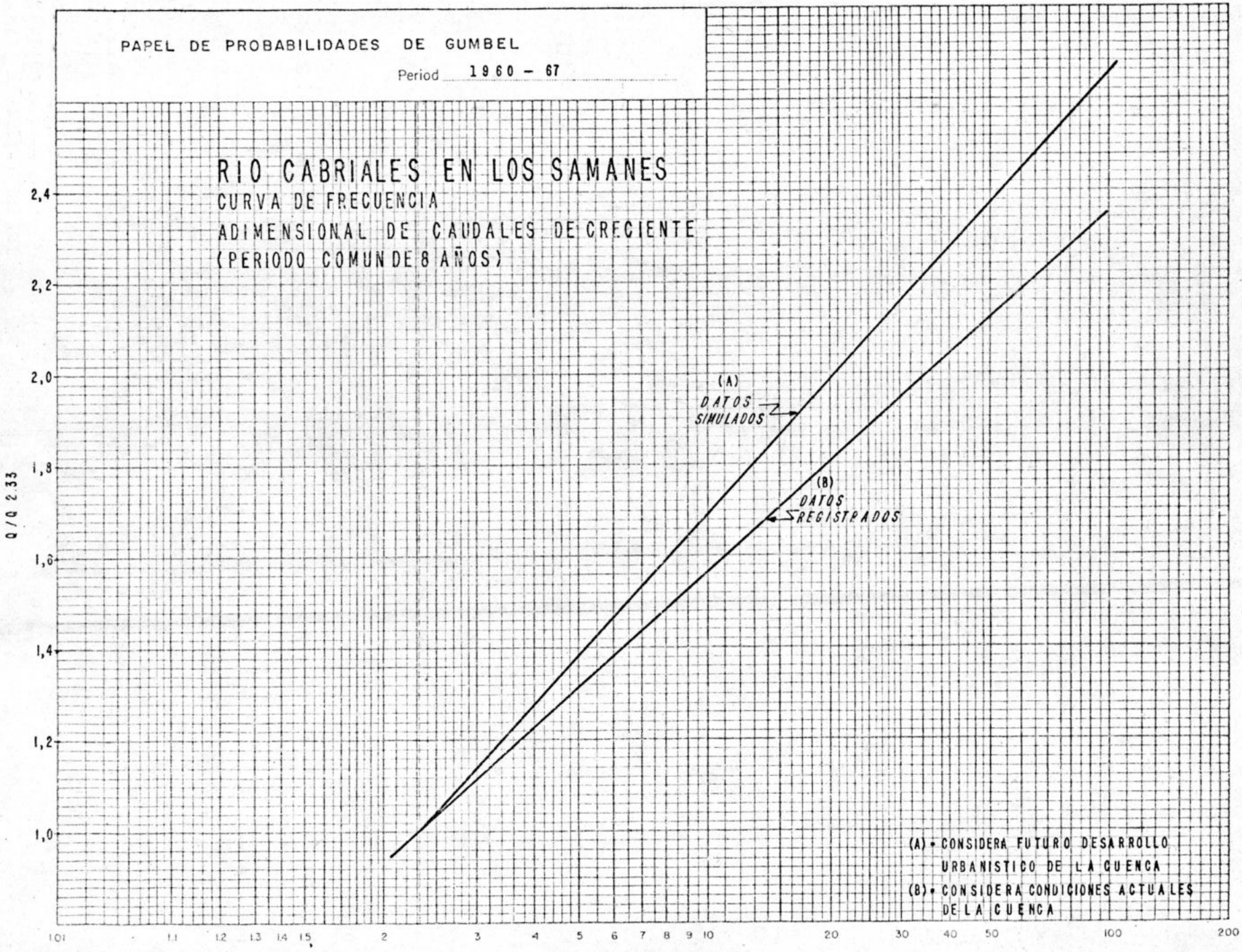
ANEXO Nº 9

PAPEL DE PROBABILIDADES DE GUMBEL

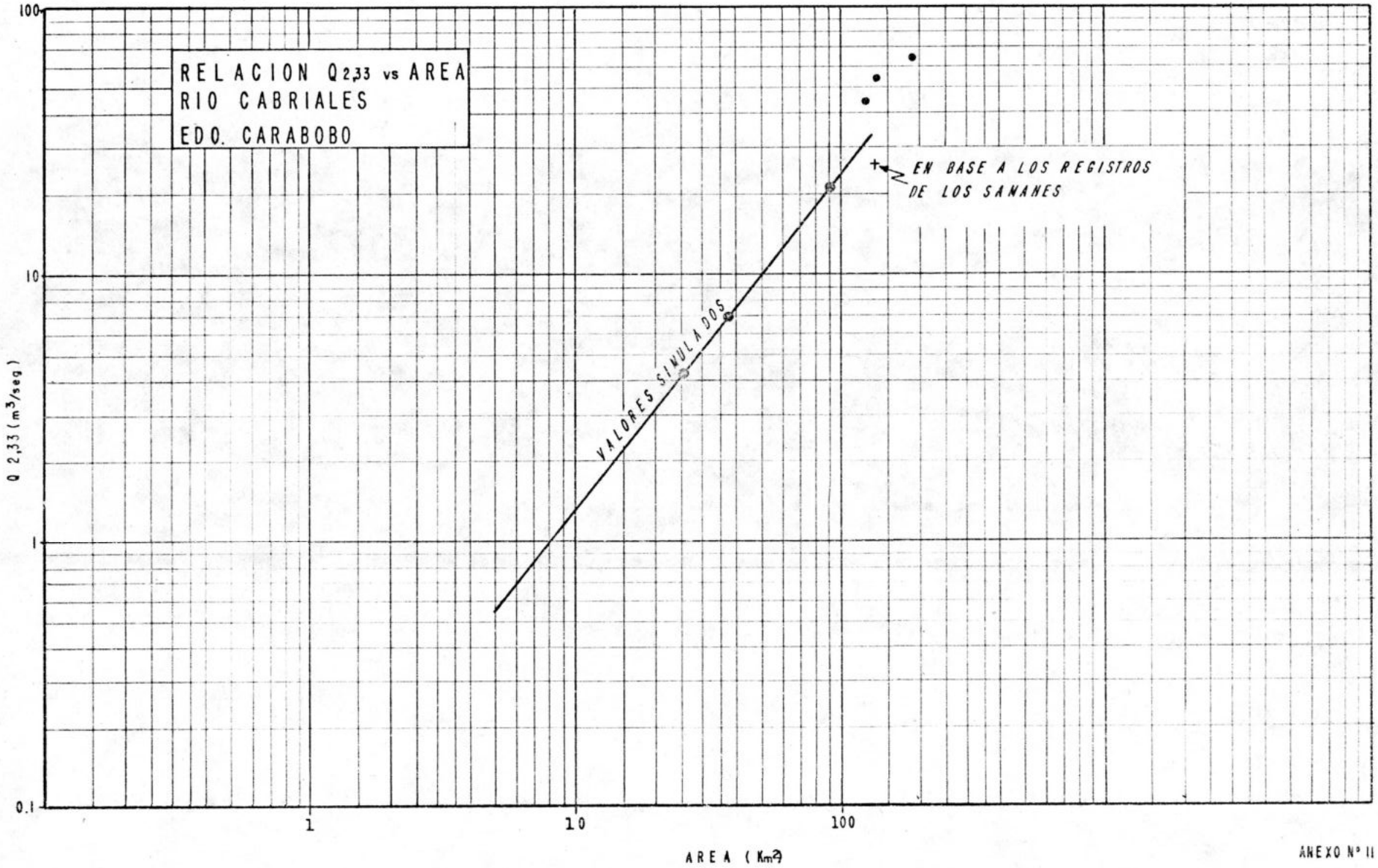
Period 1960 – 67

RIO CABRIALES EN LOS SAMANES

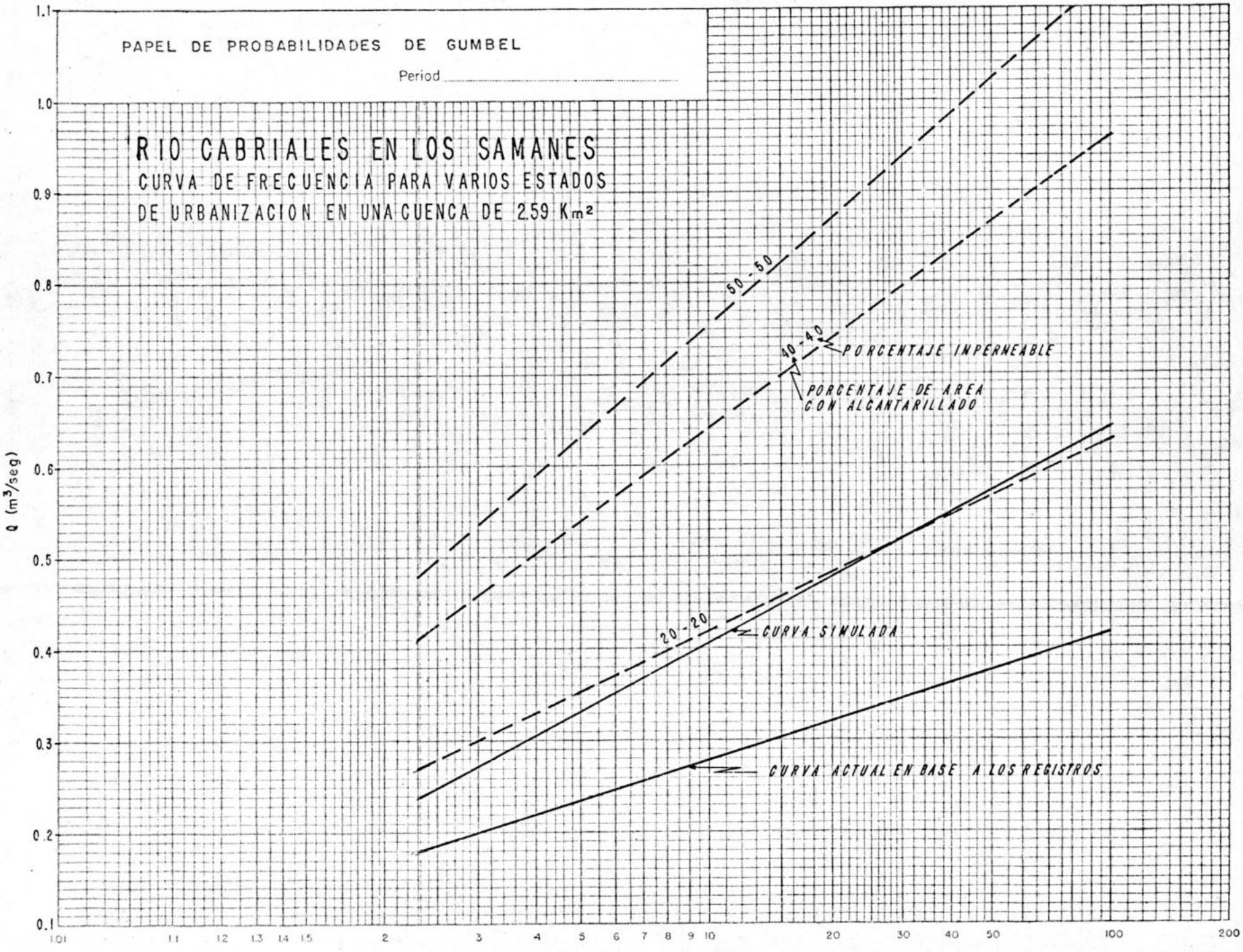
CURVA DE FRECUENCIA ADIMENSIONAL DE CAUDALES DE CRECIENTE (PERIODO COMUN DE 8 AÑOS)



ANEXO N° 10


RELACION Q2,33 vs AREA
RIO CABRIALES
EDO. CARABOBO
EN BASE A LOS REGISTROS
DE LOS SAMANES
VALORES SIMULADOS
100
10
1
0.1
Q 2,33 (m3/seg)
1
10
100
AREA (Km2)

ANEXO Nº II


PAPEL DE PROBABILIDADES DE GUMBEL
Period
RIO CABRIALES EN LOS SAMANES
CURVA DE FRECUENCIA PARA VARIOS ESTADOS
DE URBANIZACION EN UNA CUENCA DE 2.59 Km²
50 - 50
40 - 40
PORCENTAJE IMPERMEABLE
PORCENTAJE DE AREA CON ALCANTARILLADO
20 - 20
CURVA SIMULADA
CURVA ACTUAL EN BASE A LOS REGISTROS
Q (m³/seg)
Periodo de retorno en años
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1.01
1.1
1.2
1.3
1.4
1.5
2
3
4
5
6
7
8
9
10
20
30
40
50
100
200

ANEXO N°12