

APPENDIX III

HYDROLOGICAL AND METEOROLOGICAL DATA

APPENDIX III HYDROLOGICAL AND METEOROLOGICAL DATA

CONTENTS

	Page
III-1 MONTHLY AVERAGE RUN-OFF	III - 1
III-2 DAILY RUN-OFF	III - 6
III-3 RUN-OFF DURATION TABLES	III - 18
III-4 MONTHLY AVERAGE PRECIPITATION	III - 29
III-5 DAILY PRECIPITATION	III - 38
III-6 HOURLY PRECIPITATION	III - 56
III-7 DAILY TEMPERATURE	III - 61
III-8 DAILY RELATIVE HUMIDITY	III - 67

III - 1. MONTHLY AVERAGE RUN-OFF

	<u>Gauging Station</u>	<u>Catchment Area (km²)</u>	<u>Recording Period</u>
(1)	Julumito	939.0	Jan. 1962 - Dec. 1971
(2)	Malvasa	35.0	May. 1961 - Dec. 1971
(3)	Rio Mondomo	185.0	Oct. 1953 - Sep. 1967
(4)	Rio Ovejas	640.0	Jun. 1964 - Jan. 1968
(5)	Rio Jamundi	98.0	Apr. 1962 - Sep. 1968
(6)	Salvajina	3,830.0	Feb. 1946 - Sep. 1968

(1) Gauging Station
Julumito

Catchment Area (km²)
939.0

Month Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1962	19.9	17.0	28.5	24.2	21.9	29.0	49.0	47.6	20.5	19.2	21.8	16.5	26.4
1963	22.3	26.4	22.9	23.4	21.2	25.4	18.9	20.3	19.8	18.4	46.3	18.9	23.6
1964	14.9	15.1	13.1	20.8	19.2	22.4	22.8	40.0	23.1	31.1	32.2	32.2	23.1
1965	23.7	31.3	18.1	26.8	35.2	28.7	25.1	26.5	16.8	18.5	37.7	25.7	26.1
1966	17.7	15.5	24.0	22.3	17.9	19.4	24.7	20.4	17.4	19.2	31.4	41.9	22.7
1967	28.0	22.4	23.7	32.1	20.0	33.1	44.9	39.2	18.4	18.4	24.9	16.4	26.8
1968	19.9	15.3	21.2	23.3	17.8	24.6	32.8	16.0	15.3	26.9	39.1	24.2	23.1
1969	26.6	27.9	17.3	40.3	23.5	28.2	31.9	26.4	18.8	28.2	31.6	25.8	27.2
1970	23.0	30.4	27.9	20.5	25.7	31.5	25.8	26.1	24.1	24.1	43.0	25.5	27.3
1971	38.3	29.6	26.5	36.1	28.9	23.0	26.9	20.7	19.8	21.0	27.9	21.5	26.7
Average	23.4	23.0	22.3	27.0	23.1	26.5	30.3	28.3	19.4	22.5	32.6	24.9	25.3

Note: Figures underlined were estimated by a hydraulic analyses.

(2) Gauging Station
Malvasa

Catchment Area (km²)
35.0

Month Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1961	-	-	-	-	2.0	7.0	8.3	6.2	1.6	2.9	3.6	1.7	-
1962	1.39	1.07	2.21	1.81	4.25	3.59	10.70	8.29	3.27	2.65	3.06	2.03	3.89
1963	1.64	2.04	1.71	1.76	3.32	4.69	2.30	3.39	3.06	1.84	5.78	2.48	2.83
1964	0.84	0.86	0.63	1.94	2.79	4.91	4.71	5.99	4.54	7.82	3.20	4.40	3.50
1965	4.35	2.01	1.45	2.74	6.08	6.52	5.08	3.84	1.63	5.24	8.85	3.91	4.15
1966	1.14	0.91	1.49	1.46	1.18	1.90	4.13	5.07	3.50	1.97	5.36	16.16	3.72
1967	2.22	1.65	1.80	2.73	2.26	11.38	8.96	8.80	1.89	1.87	3.48	2.01	4.10
1968	1.38	1.47	1.62	2.99	3.98	13.57	19.44	8.78	1.78	1.93	3.66	3.54	5.37
1969	1.79	1.32	0.91	4.26	3.55	4.89	7.10	3.28	1.65	4.05	2.32	1.32	3.05
1970	1.25	2.71	1.86	2.53	5.43	6.76	4.09	5.65	4.61	4.19	6.27	2.78	4.01
1971	3.17	2.17	2.84	3.30	6.87	2.46	5.63	4.11	3.02	2.60	3.60	1.98	3.49
Average	-	-	-	-	3.79	6.33	7.31	5.76	3.69	3.30	4.47	3.85	3.79
*1 Average of 10 years	-	-	-	-	3.97	6.27	7.21	5.72	2.90	3.14	4.56	4.06	-

Note: *1 From 1962 to 1971

(3) Gauging Station Catchment Area (km²)
 Rio Mondomo (Corretera) 185.0

Month Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Average
(Unit: m ³ /sec)													
1953	—	—	—	—	—	—	—	—	—	6.6	5.5	6.4	—
1954	9.3	9.0	6.0	4.3	3.6	3.5	9.0	14.5	19.4	14.8	7.6	10.7	9.3
1955	12.0	9.2	7.0	6.2	3.1	3.0	5.3	8.0	13.6	22.5	13.1	7.9	9.2
1956	6.1	6.6	5.7	3.5	2.7	2.2	5.8	5.1	8.1	8.0	4.7	6.5	5.4
1957	6.2	9.7	7.1	4.5	3.2	2.8	3.2	3.4	4.1	3.8	3.5	2.8	4.5
1958	5.8	5.5	2.8	2.3	2.5	1.9	2.4	14.8	7.3	5.0	3.8	4.1	4.9
1959	3.4	4.6	5.0	3.0	2.5	2.3	4.7	5.2	4.8	9.6	12.5	5.2	5.2
1960	5.6	5.4	3.9	3.0	2.5	2.7	2.2	4.6	7.3	3.7	4.5	5.8	4.3
1961	10.1	5.2	3.8	3.4	2.3	1.9	1.3	6.6	2.8	4.1	5.8	7.6	4.6
1962	5.6	8.5	5.9	3.8	3.8	3.9	4.5	7.3	15.6	6.2	7.0	8.9	6.8
1963	17.7	11.9	7.5	4.3	3.7	3.9	5.2	9.9	4.9	5.2	9.9	4.9	7.4
1964	4.7	4.8	(3.3)	9.7	6.5	6.0	3.7	3.6	4.3	3.7	5.9	8.0	5.4
1965	7.5	5.3	4.9	6.6	6.6	5.5	(3.0)	2.6	2.5	4.2	8.1	10.4	5.6
1966	5.4	3.8	3.5	4.0	5.3	4.7	3.3	2.4	1.9	3.1	7.1	15.7	5.0
1967	6.2	6.1	7.3	6.0	6.1	5.6	3.4	2.4	2.1	—	—	—	—
Average	7.5	6.8	5.3	4.6	3.9	3.6	4.1	6.5	7.1	7.2	7.1	7.5	6.0
*1. Average of 9 years	7.4	6.2	5.0	4.9	4.4	4.1	3.5	5.0	5.1	—	—	—	—

Note: *1. From 1959 to 1967

(4) Gauging Station
Rio Ovejas (Abajo)

Catchment Area (km²)
640.0

Month Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1964	—	—	—	—	—	19.6	11.2	11.4	9.9	11.2	19.1	31.9	—
1965	21.7	14.3	12.3	18.7	21.6	12.4	(9.1)	7.3	7.3	13.2	26.6	34.5	16.6
1966	17.4	11.8	10.9	12.4	17.0	14.8	10.0	7.0	5.4	9.4	22.9	52.5	16.0
1967	20.1	19.4	24.0	19.4	19.8	17.9	10.4	7.0	5.8	8.3	21.9	16.7	15.9
1968	13.7	—	—	—	—	—	—	—	—	—	—	—	—
Average	18.2	15.2	15.7	16.8	19.5	16.2	10.2	8.2	7.1	10.5	22.6	33.9	16.2

(Unit: m³/sec)

(5) Gauging Station
Rio Jamundi (Ferro carril)

Catchment Area (km²)
98.0

Month Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1962	—	—	—	7.9	15.9	7.0	4.2	2.9	2.9	5.0	8.4	9.2	—
1963	4.1	9.1	8.6	9.4	10.4	7.0	3.7	2.8	1.4	2.8	17.7	5.9	6.9
1964	4.4	5.0	5.5	12.2	7.7	19.0	6.4	3.2	5.4	8.5	15.3	12.4	8.8
1965	5.9	3.7	6.5	15.9	14.6	4.7	1.8	1.7	1.2	6.9	13.1	7.1	6.9
1966	7.0	3.7	3.3	6.4	14.3	8.2	4.9	2.7	1.8	7.0	11.8	18.2	7.4
1967	8.1	9.7	11.3	6.2	11.1	11.4	3.3	1.5	1.7	10.3	17.7	10.7	8.6
1968	5.8	8.3	9.7	9.9	8.9	7.5	3.1	2.0	5.6	—	—	—	—
Average	5.0	5.6	6.4	9.7	11.8	9.3	3.9	2.4	2.9	5.8	12.0	9.1	7.7

(Unit: m³/sec)

(6) Gauging Station Catchment Area (km)
Salvajina 3,830.0

Month Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Average
(Unit: m ³ /sec)													
1945	-	-	-	-	-	-	-	-	-	100.5	217.7	197.8	-
1946	164.9	107.4	122.9	125.5	144.5	88.9	62.1	83.8	38.3	51.6	121.1	144.0	104.6
1947	128.7	106.3	74.6	61.0	72.6	94.6	94.1	77.1	73.6	211.5	254.8	139.8	115.7
1948	94.5	77.2	143.9	201.3	134.9	117.3	72.0	59.8	38.6	92.6	135.1	122.9	107.5
1949	149.1	150.6	119.6	126.5	160.1	120.9	98.0	78.8	63.5	122.4	287.9	255.8	144.4
1950	196.6	378.7	372.6	317.2	374.8	293.5	201.8	128.9	79.7	126.7	268.7	335.6	256.0
1951	224.3	207.8	184.1	130.0	145.0	124.9	118.5	72.9	65.2	90.2	201.6	199.8	147.0
1952	163.0	159.4	124.7	124.6	172.9	116.2	92.2	71.7	49.8	62.2	147.0	240.9	116.0
1953	150.8	124.8	100.0	126.9	127.9	106.1	81.6	59.1	54.2	159.8	284.1	332.3	142.3
1954	153.5	143.2	125.2	219.6	144.2	124.2	135.3	118.4	52.0	164.3	257.3	343.6	165.1
1955	233.6	122.4	210.3	213.8	193.2	164.8	147.3	92.7	84.2	181.8	259.8	340.0	187.0
1956	310.5	205.5	172.2	121.4	147.6	200.2	117.8	98.3	89.4	168.0	187.1	238.5	171.4
1957	183.5	95.7	130.9	136.1	195.6	164.9	90.4	63.6	46.2	64.5	103.6	182.0	121.4
1958	112.4	83.5	67.8	94.2	108.7	91.3	76.4	71.3	41.6	56.2	133.2	160.7	91.6
1959	138.9	83.7	62.9	77.5	119.6	127.8	104.7	59.3	52.1	87.9	128.7	175.8	101.6
1960	240.5	193.1	120.7	129.5	119.5	86.9	88.2	64.7	51.5	80.1	172.6	229.5	131.4
1961	111.1	90.9	77.7	141.8	88.8	119.1	101.2	71.7	41.9	62.3	205.6	149.1	105.1
1962	118.1	129.6	145.8	108.9	147.0	161.6	87.6	74.1	53.1	94.2	161.7	267.3	129.1
1963	121.1	218.4	152.4	227.7	209.3	132.1	93.9	82.2	49.4	59.7	213.1	153.0	142.7
1964	130.3	92.1	69.5	142.1	140.6	191.3	117.0	97.6	87.6	120.8	189.5	226.3	133.7
1965	162.5	106.0	77.7	126.5	141.6	74.1	77.4	55.4	45.0	95.1	207.9	239.7	117.4
1966	127.6	76.6	80.5	89.1	129.8	108.4	103.1	76.2	59.3	112.6	274.0	605.5	153.6
1967	195.3	199.0	187.9	132.0	137.4	160.0	120.6	91.9	50.2	76.9	246.1	164.1	146.8
1968	115.5	156.1	134.5	177.0	125.3	132.6	136.6	74.1	68.0	-	-	-	-
Average	162.0	143.9	132.9	141.3	151.3	134.8	105.1	79.3	58.0	106.2	202.5	236.7	137.8
*1 Average of 10 years	146.1	134.6	111.0	135.2	135.9	129.4	103.0	74.7	55.8	-	-	-	-

*1 From 1959 to 1968

III - 2. DAILY RUN-OFF

	<u>Gauging Station</u>	<u>Catchment Area (km²)</u>	<u>Recording Period</u>
(1)	Julumito	939.0	Jan. 1962 - Dec. 1971
(2)	Malvasa	35.0	May 1961 - Dec. 1971

Run-off		STATION Julumito											
CAUCA RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA, 939 km ²												UNIT m ³ /sec.	YEAR 1962
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DATE
1	18.6	15.9	15.2	20.3	19.9	19.1	20.4	148.4	19.2	18.0	21.6	14.2	1
2	21.7	15.9	15.0	28.2	19.8	19.4	20.7	140.6	19.2	18.0	21.6	13.1	2
3	25.6	15.9	15.0	27.9	28.0	29.7	23.1	194.7	19.7	18.3	19.1	12.9	3
4	21.2	15.9	15.0	28.2	23.4	119.8	25.2	158.8	33.8	18.5	17.5	12.8	4
5	19.1	15.9	15.2	44.6	20.1	87.7	25.3	117.4	23.6	18.5	15.9	12.9	5
6	19.8	15.4	15.4	41.4	19.8	38.4	24.1	96.4	24.1	19.2	15.8	14.3	6
7	17.4	15.4	19.4	24.5	18.6	33.2	27.3	67.1	22.5	19.2	15.8	19.1	7
8	17.1	15.6	36.4	22.6	18.3	22.8	30.4	45.4	20.0	21.8	15.8	18.5	8
9	21.4	15.9	57.7	19.8	20.0	20.7	33.2	29.9	19.4	24.0	14.6	23.2	9
10	18.2	15.9	69.2	18.2	19.2	20.6	33.2	21.1	19.1	22.5	17.4	23.6	10
11	23.3	17.1	44.8	17.6	19.6	19.7	36.5	18.8	19.8	21.7	19.7	21.6	11
12	29.9	17.1	31.2	17.1	19.6	19.1	44.6	18.4	20.2	20.9	21.4	20.6	12
13	30.2	17.1	30.0	17.1	21.2	19.1	48.2	19.1	19.2	19.2	23.8	19.1	13
14	25.9	17.1	20.3	17.1	20.0	18.8	40.0	20.5	19.2	19.0	26.1	17.7	14
15	21.2	16.9	18.9	17.1	19.6	18.6	37.2	22.0	30.3	19.0	26.7	17.5	15
16	19.1	16.5	25.9	17.1	20.0	18.4	35.0	25.8	23.3	19.0	30.9	17.2	16
17	18.9	16.5	40.6	16.9	27.8	18.2	39.7	29.3	21.5	18.4	25.9	15.8	17
18	18.4	22.0	33.9	16.1	22.2	18.1	53.4	32.7	19.9	18.0	24.3	15.1	18
19	18.2	20.1	28.2	17.6	27.1	18.0	55.8	30.1	19.9	18.0	32.1	14.8	19
20	17.6	19.8	25.9	18.6	33.7	18.4	60.7	25.2	19.3	18.0	37.0	14.3	20
21	17.1	19.5	23.3	18.6	28.5	19.4	74.4	22.1	18.9	18.2	31.7	13.8	21
22	17.6	18.4	25.6	18.9	25.0	21.7	62.2	21.2	18.5	18.8	25.0	13.8	22
23	19.8	18.0	28.9	19.8	23.7	22.2	48.2	20.6	18.1	19.0	22.3	13.3	23
24	19.5	17.6	31.8	20.8	22.2	25.2	40.7	20.0	18.0	18.5	24.4	12.9	24
25	18.4	16.6	40.0	28.6	21.9	30.1	35.8	20.0	18.0	18.4	24.4	12.9	25
26	18.2	15.8	34.8	25.3	21.4	40.4	33.5	18.7	18.0	18.7	22.5	12.9	26
27	17.3	15.4	31.0	26.9	20.3	35.2	39.5	18.1	18.0	18.9	17.5	16.1	27
28	17.4	15.4	27.9	28.9	19.7	27.8	60.6	18.0	18.0	18.8	15.9	19.9	28
29	16.9	23.9	23.9	41.4	19.4	25.8	124.3	18.2	18.1	19.0	14.4	21.6	29
30	16.3		21.4	50.0	19.9	23.8	154.3	18.3	18.0	19.2	14.4	17.9	30
31	15.9		20.8		20.0		132.8	18.3		19.6		17.1	31
Sum Ave.	617.2	474.6	882.6	727.2	979.9	869.4	1,520.3	1,475.2	614.8	596.3	655.5	510.5	
	19.9	17.0	28.5	24.2	21.9	29.0	49.0	47.6	20.5	19.2	21.8	16.5	
Annual Total												9,623.5	

Note: Figures from 1 Jan. to 31 Dec. were estimated by a hydraulic analysis.

44.3 100 x 1 x 30

Run-off		STATION Julumito											
CAUCA RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA, 939 km ²												UNIT m ³ /sec.	YEAR 1963
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DATE
1	25.9	24.8	22.6	21.2	18.1	18.0	18.3	19.7	18.6	18.4	25.4	14.1	1
2	24.5	21.7	20.5	19.5	53.6	18.1	18.5	20.0	18.5	21.1	61.6	14.0	2
3	23.9	21.7	19.5	19.5	23.6	18.1	18.8	21.5	18.7	20.2	96.1	13.8	3
4	21.7	26.3	19.5	20.8	21.2	18.0	19.2	24.5	21.1	19.0	99.3	15.1	4
5	21.7	25.3	20.0	21.7	19.6	18.0	18.7	22.1	24.5	18.8	79.3	21.2	5
6	19.8	21.7	23.6	23.3	18.8	18.6	18.5	21.1	23.7	18.3	71.0	28.5	6
7	19.5	25.0	26.9	22.0	18.5	22.8	18.3	20.4	23.0	18.2	66.8	40.3	7
8	22.7	25.6	27.9	23.3	18.8	22.9	18.2	19.2	20.3	18.2	58.6	31.3	8
9	25.9	20.5	30.7	23.0	19.0	21.9	18.1	19.2	20.0	18.1	53.2	26.4	9
10	26.2	20.9	28.6	21.2	21.6	19.2	18.0	20.4	19.6	18.1	164.0	23.2	10
11	23.7	59.6	28.2	23.0	20.6	19.0	18.0	21.9	19.7	18.1	99.4	22.9	11
12	21.7	28.2	26.3	23.3	18.8	24.9	18.0	26.3	19.4	18.1	77.2	22.3	12
13	21.7	26.4	25.0	22.3	22.0	30.8	18.0	26.0	19.4	18.1	68.8	20.0	13
14	19.8	22.6	22.6	21.7	20.8	21.1	18.1	22.8	19.2	18.0	65.9	21.0	14
15	18.2	20.9	22.6	21.4	29.9	24.5	18.3	21.3	21.3	18.0	53.7	20.3	15
16	18.2	22.6	21.4	20.3	35.8	40.3	18.5	20.6	23.3	18.0	46.1	19.7	16
17	18.2	26.2	20.5	22.1	25.0	65.9	18.2	19.8	21.8	18.1	34.1	19.1	17
18	18.4	26.6	19.4	32.7	19.1	49.5	18.1	19.2	19.6	18.1	28.5	17.5	18
19	18.2	24.2	18.9	29.2	18.5	26.6	18.0	18.8	19.8	18.0	21.6	17.1	19
20	17.8	20.9	18.9	28.6	18.4	22.8	18.0	18.6	19.4	18.0	19.1	15.8	20
21	18.2	18.4	18.9	33.5	18.2	22.1	18.0	18.4	19.2	17.9	19.1	15.4	21
22	19.2	20.5	22.4	29.3	18.1	21.1	18.2	18.4	19.0	17.9	19.1	16.2	22
23	18.4	31.0	25.6	26.0	18.1	21.1	20.7	18.1	18.3	17.9	15.8	16.6	23
24	18.9	34.4	24.3	23.3	18.1	20.5	22.4	18.0	18.3	17.8	15.8	16.2	24
25	18.6	33.9	23.9	22.0	18.1	20.2	21.1	18.0	18.3	17.8	15.8	14.9	25
26	30.0	31.0	23.3	20.9	18.2	20.2	20.4	18.5	18.2	17.8	15.2	14.4	26
27	31.8	29.9	22.7	20.9	18.2	19.2	19.9	19.2	18.0	17.8	14.9	14.1	27
28	26.2	27.0	20.8	20.8	18.2	18.8	19.2	18.9	18.1	18.8	14.4	13.8	28
29	22.1		19.5	21.2	18.6	18.6	19.6	18.1	19.6	14.1	13.8	13.8	29
30	20.3		23.3	21.7	18.3	18.4	19.9	20.0	18.1	19.1	14.1	13.8	30
31	20.3		21.7		18.1		20.0	19.2		20.0		13.8	31
Sum Ave.	691.7	737.8	710.2	702.6	659.0	761.2	584.4	629.7	594.5	571.3	1,388.0	588.6	
	22.3	26.4	22.9	23.4	21.2	25.4	18.8	20.3	19.8	18.4	46.3	18.9	
Annual Total												8,617.0	

Note: Figures from 1 Jan. to 31 Dec. were estimated by a hydraulic analysis.

44.3 100 x 1 x 30

Run-off		STATION Julumito												UNIT		YEAR 1964	
CAUCA RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA 939 km ²														m ³ /sec.		YEAR 1964	
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DATE				
1	19.5	13.3	12.8	16.1	17.4	17.0	21.8	21.6	19.4	17.8	22.9	21.6	1	1			
2	18.9	13.1	12.8	15.7	17.2	20.2	18.0	24.2	20.7	17.7	20.1	15.5	2	2			
3	18.2	13.1	12.8	15.4	18.2	21.4	20.0	30.4	35.1	19.7	24.5	13.1	3	3			
4	17.5	12.8	12.8	15.9	15.5	25.5	31.6	36.0	48.0	24.5	18.5	18.0	4	4			
5	17.1	12.8	12.3	15.4	16.7	24.2	30.1	30.8	24.1	30.9	21.8	47.5	5	5			
6	16.9	13.5	12.8	15.2	16.9	23.9	18.9	35.3	23.1	60.7	37.5	46.1	6	6			
7	17.4	13.1	13.7	14.5	15.7	23.9	18.6	33.8	21.8	53.1	35.0	30.4	7	7			
8	15.4	12.9	13.5	15.8	15.7	19.5	19.8	36.9	24.1	50.5	21.8	18.0	8	8			
9	15.0	12.8	13.1	18.2	16.4	20.0	25.7	29.8	20.0	60.2	13.9	13.6	9	9			
10	15.0	12.8	12.8	19.5	19.9	21.6	31.7	25.8	21.6	37.6	15.3	28.7	10	10			
11	15.0	12.8	12.8	22.9	17.0	19.1	32.0	37.5	19.0	29.1	17.9	22.6	11	11			
12	14.5	22.7	12.8	25.0	15.9	18.8	27.0	57.9	17.8	24.5	22.3	28.5	12	12			
13	14.5	26.0	12.8	28.0	25.1	18.1	29.9	63.7	27.7	22.4	26.6	24.4	13	13			
14	14.5	22.1	12.8	28.9	30.5	17.1	28.4	51.3	28.6	20.3	17.8	15.2	14	14			
15	15.0	19.4	12.8	33.5	24.8	21.1	23.0	60.8	20.7	18.2	14.5	38.4	15	15			
16	14.5	18.9	12.8	31.5	19.4	18.9	19.6	53.8	20.8	16.7	16.3	15.6	16	16			
17	14.2	18.9	12.8	32.9	16.6	17.6	18.3	49.2	18.2	20.8	23.0	29.8	17	17			
18	14.0	18.0	13.3	30.2	23.5	22.0	18.2	45.9	17.9	38.8	35.6	71.2	18	18			
19	14.0	16.1	13.5	16.8	25.1	30.8	18.2	43.2	23.9	75.3	30.5	44.7	19	19			
20	13.5	14.5	13.3	16.7	21.0	26.5	19.1	42.9	22.0	68.7	28.3	35.7	20	20			
21	13.1	14.0	13.1	16.4	17.3	30.9	17.7	47.6	18.2	43.9	21.6	46.9	21	21			
22	13.1	13.7	13.9	15.8	17.1	31.9	16.8	46.1	20.3	19.4	14.2	35.7	22	22			
23	13.3	13.5	13.7	15.5	20.8	27.9	18.5	49.0	18.4	19.6	19.4	38.9	23	23			
24	13.5	13.1	13.5	16.6	21.0	26.1	19.6	52.7	18.4	16.5	17.7	32.1	24	24			
25	13.3	13.1	13.5	16.9	27.1	20.6	19.5	41.4	33.4	16.0	15.1	14.3	25	25			
26	13.3	13.1	13.1	30.9	17.9	20.7	21.6	40.3	33.8	15.3	14.1	51.3	26	26			
27	13.5	13.1	13.1	26.1	16.2	23.9	20.5	40.3	20.2	16.4	16.8	45.0	27	27			
28	13.5	12.8	13.1	20.1	17.4	22.2	32.7	34.4	19.4	15.4	20.8	50.8	28	28			
29	13.3	12.8	13.1	16.8	16.2	18.9	33.1	29.4	18.9	47.3	31.6	55.4	29	29			
30	13.5		13.1	17.4	16.8	22.5	18.3	27.1	17.9	40.3	25.7	32.0	30	30			
31	14.0		15.2		19.1		17.7	22.5		26.1		18.7	31	31			
Sum Ave.	462.0	438.8	407.5	622.6	594.7	672.8	705.9	1,241.6	694.4	963.7	661.1	999.7					
	14.9	15.1	13.1	20.8	19.2	22.4	22.8	40.0	23.1	31.1	22.0	32.2					
Annual Total												8,464.8					
Note: Figures from 1 Jan. to 18 Apr. were estimated by a hydraulic analysis.																	

Run-off		STATION Julumito												UNIT		m ³ /sec.		YEAR 1965	
CAUCA RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA 939 km ²																			
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DATE						
1	12.7	16.6	45.1	16.9	48.3	30.0	16.0	19.8	18.4	13.7	16.4	37.6	1						
2	11.4	16.9	30.5	17.5	46.7	27.3	19.4	19.3	16.7	13.7	23.5	24.7	2						
3	27.4	14.4	23.3	15.1	52.2	25.1	18.9	16.5	24.7	13.6	17.4	18.5	3						
4	23.3	11.8	14.8	14.6	52.0	24.5	35.7	14.9	19.9	13.0	37.8	29.1	4						
5	18.4	29.0	14.9	17.5	38.5	20.7	31.8	22.2	16.3	13.7	18.1	26.4	5						
6	16.6	73.9	16.7	17.4	36.3	17.0	20.5	20.7	16.5	16.3	31.1	27.8	6						
7	14.5	51.8	20.2	24.5	25.9	16.0	26.7	64.0	18.9	18.6	32.0	35.7	7						
8	13.8	45.3	24.8	17.6	26.1	19.1	36.8	53.8	15.1	14.2	18.7	45.6	8						
9	12.2	40.4	23.7	16.7	28.2	43.9	28.2	38.2	19.6	14.3	45.9	26.0	9						
10	13.3	37.5	19.5	17.3	43.7	23.6	21.6	22.6	20.1	15.7	22.2	34.9	10						
11	13.6	41.7	23.1	19.8	44.0	23.1	18.3	19.5	16.1	12.5	16.0	20.1	11						
12	18.3	44.3	19.1	16.8	38.8	22.0	14.1	19.5	16.2	13.3	55.9	27.1	12						
13	18.6	33.2	12.8	17.5	46.8	21.3	12.8	20.2	20.4	14.0	43.5	23.5	13						
14	20.1	24.1	14.4	21.5	50.4	15.9	25.2	24.1	19.9	14.7	28.7	18.7	14						
15	23.4	18.8	14.0	22.6	45.3	15.4	20.0	14.4	19.3	15.3	30.4	27.7	15						
16	13.6	16.0	16.5	21.9	41.4	32.3	18.0	24.7	14.5	15.9	45.7	27.9	16						
17	17.4	18.6	18.1	31.1	37.8	48.9	15.3	62.1	12.9	17.1	64.3	25.6	17						
18	12.7	16.4	17.1	29.2	35.9	45.7	54.3	52.8	12.6	41.0	40.2	25.3	18						
19	48.1	16.1	13.9	18.9	29.3	42.4	44.5	42.5	23.2	31.5	35.7	21.8	19						
20	40.1	12.5	12.2	64.2	28.1	60.4	26.1	38.3	17.7	23.1	57.7	22.6	20						
21	33.5	20.3	13.2	57.9	27.5	43.6	44.8	26.1	19.6	18.6	42.2	23.7	21						
22	48.9	17.4	12.6	58.8	25.6	34.7	32.5	23.0	16.3	15.9	34.2	21.6	22						
23	25.3	20.8	13.1	66.7	25.2	34.5	26.9	19.0	14.3	25.4	48.1	18.7	23						
24	24.6	23.0	12.8	37.0	17.7	35.6	22.8	15.9	12.2	28.5	27.1	33.3	24						
25	50.4	76.8	16.5	34.0	29.7	31.5	17.3	19.0	13.7	47.6	43.7	28.9	25						
26	31.2	59.4	16.1	22.9	31.9	26.1	25.9	17.7	14.8	20.7	47.3	20.1	26						
27	42.9	41.2	16.5	20.6	29.3	22.5	24.8	22.3	12.3	16.5	64.3	20.5	27						
28	19.2	38.2	17.1	18.8	29.7	20.3	20.6	15.8	11.6	16.0	51.7	21.3	28						
29	22.9		17.7	19.4	26.6	19.0	19.5	13.3	15.4	13.3	43.2	21.0	29						
30	17.6		17.2	49.2	27.0	17.4	20.9	18.3	15.0	12.7	48.4	21.8	30						
31	23.7		14.5		25.8		18.7	20.9		14.1		20.8	31						
Sum Ave.	734.7	876.4	562.0	803.9	1,091.7	859.8	778.9	821.4	504.2	574.3	1,131.2	798.5							
	23.7	31.3	18.1	26.8	35.2	28.7	25.1	26.5	16.8	18.5	37.7	25.7							
Annual Total												9,537.0							
44.3 100 x 1 x 30																			

Run-off		STATION Julumito														
CAUCA RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA												939 km ²	UNIT	m ³ /sec.	YEAR	1966
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DATE			
1	22.2	16.9	13.9	25.3	15.7	23.6	58.7	22.4	15.2	29.5	16.3	33.5	1			
2	23.3	19.7	14.0	22.4	16.7	19.1	44.2	24.5	16.0	26.9	14.9	32.6	2			
3	21.9	15.5	13.9	46.2	17.5	18.3	25.0	17.6	14.1	28.0	17.0	29.0	3			
4	17.9	12.9	14.6	34.6	15.5	15.5	19.4	14.9	14.6	18.2	25.0	31.0	4			
5	17.2	14.2	12.8	33.2	15.6	18.7	19.5	20.0	14.7	14.7	15.5	61.7	5			
6	17.9	16.4	15.9	15.0	14.6	18.9	29.8	24.5	17.6	16.9	16.3	53.6	6			
7	23.3	14.5	17.6	14.7	15.8	17.8	20.1	24.4	14.4	18.9	32.6	44.1	7			
8	18.8	17.2	16.4	17.7	15.2	14.8	21.0	20.0	15.2	14.0	23.7	55.6	8			
9	17.0	22.7	21.7	15.7	17.5	14.6	21.9	26.5	21.7	15.3	35.0	78.6	9			
10	18.8	21.6	50.1	36.0	22.0	26.5	22.7	19.9	27.3	19.2	21.9	67.5	10			
11	16.2	19.5	26.3	23.1	23.6	25.7	21.6	18.4	19.7	20.4	27.2	56.3	11			
12	13.2	15.4	29.5	17.3	19.5	23.1	28.4	17.1	17.2	16.4	24.7	54.5	12			
13	13.9	14.2	23.7	16.0	17.5	18.8	24.6	19.8	25.2	18.7	37.7	83.4	13			
14	16.2	15.9	50.0	18.3	21.2	20.2	25.8	24.3	22.4	17.9	51.1	96.0	14			
15	12.8	14.1	36.6	22.0	15.7	14.0	29.0	25.7	19.2	16.7	52.7	84.9	15			
16	14.3	13.7	16.9	21.4	15.2	14.0	22.8	20.0	16.5	17.2	57.0	76.3	16			
17	18.6	13.8	21.9	16.9	17.4	15.0	19.2	18.2	15.5	16.5	36.5	74.7	17			
18	18.4	18.2	19.6	20.7	16.1	18.9	23.3	19.4	18.2	17.6	44.8	44.2	18			
19	22.2	13.5	20.0	29.1	17.3	20.1	17.3	17.2	16.1	15.9	31.8	22.9	19			
20	19.9	12.4	24.8	24.3	15.4	17.3	16.6	24.5	17.3	23.6	27.7	20.8	20			
21	17.5	13.7	24.7	23.2	17.8	16.8	23.7	23.0	15.3	18.4	27.6	29.0	21			
22	13.1	12.4	33.6	21.9	23.6	15.7	20.7	18.2	15.4	23.4	23.2	33.6	22			
23	15.6	12.5	21.2	21.4	18.5	18.9	16.6	21.4	14.6	24.2	24.5	29.0	23			
24	18.6	12.6	18.9	24.2	15.9	33.2	16.5	22.4	18.7	21.3	29.9	23.2	24			
25	15.6	13.6	40.3	19.3	20.3	28.3	30.3	21.7	23.4	19.7	28.2	18.2	25			
26	23.2	17.5	25.2	17.2	18.1	19.6	35.0	21.8	18.2	20.7	33.2	15.5	26			
27	17.4	16.8	21.2	15.9	17.4	17.0	28.8	23.9	14.7	18.6	32.7	14.7	27			
28	16.9	13.7	19.6	17.4	18.6	17.6	22.6	17.4	14.0	17.5	28.8	11.4	28			
29	14.4	-	39.5	16.8	20.7	16.7	16.9	15.4	14.0	17.4	60.0	10.3	29			
30	18.5	-	19.8	20.5	20.6	23.3	22.2	14.6	15.7	16.3	45.4	8.1	30			
31	14.1	-	18.3	-	18.3	-	20.0	15.0	-	16.9	-	7.8	31			
Sum Ave.	549.7 17.7	435.1 15.5	742.5 24.0	667.7 22.2	554.8 17.9	583.0 19.4	764.2 24.6	636.1 20.4	522.1 17.4	596.9 19.2	942.9 31.4	1,300.0 41.9				
Annual Total												8,293.0				

Note: Figures from 1 Dec. to 31 Dec. were estimated by the author.

Note: Figures from 1 Dec. to 31 Dec. were estimated by a hydraulic analysis.

44.3 100 x 1 x 30

Run-off		STATION Julumito														
CAUCA RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA												939 km ²	UNIT	m ³ /sec.	YEAR	1967
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DATE			
1	24.2	25.4	17.3	34.8	18.7	20.9	52.8	45.6	19.0	18.9	32.5	22.3	1			
2	24.2	23.9	16.5	31.8	18.5	23.9	82.3	34.7	18.8	18.9	26.7	19.9	2			
3	22.0	22.6	15.9	28.2	18.8	24.1	107.5	25.0	18.5	18.9	19.5	18.4	3			
4	26.9	21.3	15.9	25.9	20.0	28.3	90.5	34.9	18.5	18.8	18.0	20.3	4			
5	35.2	28.2	15.4	24.2	16.4	44.1	88.6	40.0	18.4	18.7	18.7	19.5	5			
6	33.5	36.1	15.0	22.6	14.7	27.9	74.4	61.5	18.3	18.5	17.7	18.5	6			
7	29.4	31.9	16.6	21.7	14.9	22.4	55.8	53.4	18.2	18.4	17.1	17.7	7			
8	25.3	28.9	15.9	20.5	17.4	20.8	40.0	45.4	18.1	18.3	16.5	16.2	8			
9	24.5	27.2	16.5	22.1	17.6	27.1	30.7	40.0	18.1	18.3	15.7	14.9	9			
10	22.8	24.2	16.5	23.3	17.0	26.7	26.3	35.9	18.1	18.3	15.6	14.4	10			
11	21.7	21.7	15.9	21.7	17.4	21.7	23.2	32.3	18.0	18.3	15.1	15.8	11			
12	21.4	20.8	16.6	25.3	16.8	18.9	20.6	26.8	18.0	18.4	15.2	15.4	12			
13	20.3	19.1	16.7	24.2	15.0	19.5	19.6	25.3	18.1	18.3	18.9	15.1	13			
14	23.1	23.9	16.5	23.3	15.1	25.1	19.2	22.0	18.1	18.3	29.2	14.6	14			
15	37.9	23.0	16.5	23.3	19.4	23.4	18.9	21.6	18.0	18.2	19.9	14.3	15			
16	34.2	20.3	20.7	22.0	25.8	20.3	18.5	21.1	18.0	18.2	17.1	14.1	16			
17	33.5	19.5	22.8	25.9	24.9	21.5	18.3	26.5	17.9	18.2	15.4	14.1	17			
18	33.5	18.9	22.9	33.5	24.0	19.1	19.0	141.5	18.0	18.1	15.6	13.8	18			
19	30.4	18.2	24.6	44.9	20.4	19.6	19.6	97.4	18.1	18.0	16.1	13.1	19			
20	28.6	18.2	25.9	44.9	16.9	23.6	18.9	68.7	18.7	18.0	34.1	13.0	20			
21	25.4	17.4	29.9	44.1	19.4	30.6	18.7	50.7	19.3	18.0	45.3	13.0	21			
22	31.5	21.8	28.9	79.8	22.2	44.9	18.4	40.0	18.8	18.0	38.2	12.7	22			
23	27.6	21.4	30.0	77.7	21.8	51.5	20.2	33.9	18.7	18.0	22.9	12.5	23			
24	35.9	20.7	31.6	64.8	16.5	51.5	24.7	31.5	18.6	17.9	33.3	12.5	24			
25	32.9	19.2	40.7	53.3	22.6	52.1	28.3	30.4	18.3	17.9	49.2	26.7	25			
26	29.9	18.0	34.4	18.1	25.2	47.4	35.3	26.6	18.2	18.0	38.2	23.2	26			
27	26.6	17.6	24.5	20.2	26.0	48.2	72.1	23.2	18.2	18.1	38.2	21.2	27			
28	24.6	17.6	18.4	19.4	23.7	57.0	101.6	19.6	18.2	18.1	32.0	17.9	28			
29	33.9	-	30.0	21.9	28.2	70.1	100.4	19.2	18.5	18.1	28.5	15.8	29			
30	30.2	-	58.5	19.9	22.8	61.0	71.9	19.0	18.9	19.2	24.5	14.2	30			
31	26.2	-	47.9	-	23.4	-	54.9	19.8	-	19.7	-	13.8	31			
Sum Ave.	867.3 28.0	627.0 22.4	735.4 23.7	963.3 32.1	621.5 20.0	993.2 33.1	1,391.2 44.9	1,213.7 39.2	550.6 18.4	569.0 18.4	746.7 24.9	508.9 16.4				
Note: Figures from Jan. to 25 Apr. and 1 Jul. to 21 Dec.												Annual Total	9,787.8			

Note: Figures from 1 Jan. to 25 Apr. and 1 Jul. to 31 Dec. were estimated by a hydraulic analysis.

44.3 100 x 1 x 30

Run-off			STATION Julmito										UNIT		m ³ /sec.		YEAR 1968	
CAUCA RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA 939 km ²																		
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DAVE					
1	16.0	11.9	16.4	18.4	13.6	18.9	18.0	21.3	15.0	14.6	25.7	27.9	1					
2	15.2	11.9	20.6	17.5	13.8	23.8	19.8	21.4	14.1	13.0	19.4	24.6	2					
3	13.1	15.0	17.9	15.1	17.3	20.6	24.8	17.1	13.4	12.1	19.6	23.4	3					
4	12.4	16.9	18.5	14.3	19.6	21.4	19.8	14.7	14.5	13.1	20.5	24.5	4					
5	12.1	15.4	18.4	14.0	17.7	21.2	20.4	13.4	14.2	16.2	23.7	27.1	5					
6	11.1	14.6	15.2	12.9	16.8	17.5	15.2	14.6	20.9	29.6	27.9	24.0	6					
7	12.7	16.7	13.4	14.5	19.3	15.5	15.4	15.4	15.1	35.0	26.8	30.6	7					
8	15.3	11.1	38.6	17.7	12.9	44.5	12.8	20.3	14.9	25.7	22.5	32.3	8					
9	33.8	11.0	43.9	39.0	12.6	49.3	14.0	19.7	13.8	19.4	61.3	23.7	9					
10	52.2	15.2	39.3	60.2	17.5	42.9	17.9	13.5	16.6	23.0	36.1	21.3	10					
11	52.1	18.0	23.2	60.1	20.9	26.8	16.4	12.9	16.9	27.3	54.4	22.0	11					
12	45.2	14.9	17.6	52.0	17.2	20.4	14.7	18.8	14.7	23.4	27.8	25.6	12					
13	38.5	30.6	15.2	44.4	35.2	17.5	14.8	14.4	14.8	33.8	54.0	26.6	13					
14	20.8	19.8	27.9	24.1	22.9	32.2	17.7	16.6	13.9	22.1	48.8	23.0	14					
15	11.5	13.2	51.5	13.3	15.2	59.3	21.2	16.7	13.0	22.9	63.0	25.7	15					
16	11.9	11.9	32.4	13.7	13.6	37.4	47.2	18.1	14.9	23.0	54.7	25.7	16					
17	12.7	10.4	20.8	14.6	12.0	24.1	62.1	18.0	14.7	23.0	27.9	20.2	17					
18	14.9	11.5	16.5	17.2	13.3	19.0	47.2	16.7	14.7	27.8	30.2	19.7	18					
19	11.0	13.9	16.6	12.6	16.0	19.1	31.7	17.0	14.9	42.2	40.6	19.6	19					
20	12.1	11.5	17.1	14.0	13.3	19.8	37.3	15.3	16.8	25.7	61.8	26.7	20					
21	11.1	11.1	13.4	12.8	12.7	15.3	71.0	18.8	15.6	22.0	38.4	24.6	21					
22	12.1	16.4	11.9	14.0	18.8	13.6	59.2	16.4	14.8	25.0	34.8	25.1	22					
23	19.4	18.4	11.9	22.4	21.2	13.7	46.7	15.5	14.2	21.4	30.3	28.7	23					
24	18.8	15.9	26.4	21.7	18.4	39.5	31.9	13.7	15.9	22.6	26.6	27.8	24					
25	15.3	19.4	20.8	21.1	22.4	24.1	23.9	13.6	15.4	61.2	58.0	25.1	25					
26	26.1	18.4	19.4	30.1	21.2	22.4	21.4	12.3	15.7	45.4	59.0	22.6	26					
27	27.1	16.1	14.4	31.3	18.6	16.7	56.7	12.7	16.1	24.5	53.0	17.8	27					
28	20.4	14.0	14.2	23.4	18.6	16.4	81.3	14.2	16.5	70.0	29.3	20.1	28					
29	14.6	17.6	14.3	18.8	16.2	16.6	61.2	13.2	16.4	26.0	49.2	25.0	29					
30	13.7		14.3	15.2	22.5	18.8	45.1	14.0	16.6	22.8	45.9	21.4	30					
31	13.7		14.3		20.8		31.3	16.0		36.5		16.7	31					
Sum Ave.	616.9	442.7	656.3	700.3	552.1	739.3	1,018.1	496.3	459.0	833.3	1,173.2	749.1						
	19.9	15.3	21.2	23.3	17.8	24.6	52.8	16.0	15.3	26.9	39.1	24.2						
Annual Total													8,419.1					
44.3 100 x 1 x 30																		

Run-off			STATION Julmito										UNIT		m ³ /sec.		YEAR 1969	
CAUCA RIVRR, IN THE BASIN OF CAUCA CATCHMENT AREA 939 km ²																		
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DATE					
1	32.6	41.3	18.4	24.7	(42.4)	44.4	(42.4)	21.8	19.4	20.0	35.2	36.8	1					
2	25.0	19.0	23.8	20.8	42.4	19.4	(42.4)	22.8	18.8	24.2	34.4	22.5	2					
3	22.6	18.6	33.1	16.5	55.6	41.0	(42.4)	25.6	18.7	31.9	27.1	21.8	3					
4	24.2	28.6	21.5	14.6	30.6	40.3	(42.4)	22.3	18.3	19.7	37.5	20.8	4					
5	19.4	26.8	16.8	13.8	37.3	33.5	(42.4)	24.5	18.1	28.0	28.6	20.8	5					
6	10.8	30.2	20.8	11.9	34.9	28.6	(42.4)	26.4	18.0	28.6	27.1	22.2	6					
7	11.8	39.8	13.6	18.3	22.8	24.0	(42.4)	26.0	18.0	23.9	26.1	21.5	7					
8	12.3	38.4	13.6	31.2	22.2	23.8	(42.4)	18.2	17.9	27.0	30.0	20.8	8					
9	13.8	22.4	14.4	18.3	24.9	24.1	20.3	38.8	17.9	20.6	47.0	31.0	9					
10	15.3	33.1	11.0	27.9	21.8	16.8	18.6	29.8	17.9	17.7	41.3	34.4	10					
11	13.1	20.9	14.4	35.7	21.2	14.3	23.5	25.8	17.9	15.4	44.4	29.0	11					
12	10.6	32.9	14.0	41.3	20.2	23.2	18.0	24.0	18.0	17.7	43.1	12.2	12					
13	12.8	22.2	13.5	23.4	18.7	21.5	26.0	38.8	18.0	24.8	33.7	50.8	13					
14	24.0	29.8	12.8	21.5	15.0	18.0	22.8	42.2	18.1	41.6	28.6	31.9	14					
15	35.4	37.7	31.4	45.3	12.3	14.3	29.6	43.8	18.1	27.4	43.1	33.2	15					
16	37.3	24.1	35.2	48.7	14.0	29.9	16.8	20.0	18.1	44.0	33.2	27.9	16					
17	32.0	15.2	37.0	52.1	15.1	47.5	35.9	20.4	18.1	44.0	28.3	13.8	17					
18	23.2	25.0	22.0	56.3	16.8	39.3	23.0	20.4	17.9	27.9	27.1	42.3	18					
19	42.3	24.0	9.8	42.3	12.8	34.0	25.1	20.9	17.9	26.6	29.0	31.2	19					
20	39.8	25.4	9.8	21.5	14.8	29.4	41.8	21.3	17.9	21.2	22.8	24.2	20					
21	32.9	38.4	9.4	28.2	15.4	19.6	36.4	19.6	17.9	21.8	25.4	13.8	21					
22	47.9	28.8	10.6	41.8	17.4	27.4	38.8	44.9	17.9	21.3	24.2	35.4	22					
23	37.4	26.8	9.8	35.0	18.0	21.3	31.8	32.0	17.9	18.7	26.5	33.5	23					
24	38.6	28.3	10.8	108.6	17.2	54.4	31.0	19.2	17.9	27.1	31.0	25.3	24					
25	42.3	17.5	11.9	117.9	25.4	34.4	31.8	39.4	17.9	33.5	25.3	21.5	25					
26	32.4	36.2	11.7	44.9	29.0	13.4	29.0	25.4	18.0	23.0	26.0	20.2	26					
27	19.9	24.7	12.3	39.3	30.6	12.0	44.9	24.2	18.3	48.2	31.9	22.8	27					
28	33.0	25.7	16.2	35.4	24.2	25.0	37.4	22.2	22.5	48.1	39.0	21.2	28					
29	30.2		15.0	26.4	20.4	33.8	22.6	21.8	35.2	37.8	26.5	18.3	29					
30	18.4		23.2	148.2	17.2	34.0	22.5	19.0	17.7	32.3	25.6	20.2	30					
31	34.5		17.7		17.8		22.5	18.0		29.8		18.6	31					
Sum Ave.	825.8	780.8	535.5	1,209.8	728.4	844.6	989.3	819.6	564.2	873.8	949.0	799.9						
	26.6	27.9	17.3	40.3	23.5	28.2	31.9	26.4	18.8	28.2	31.6	25.8						
Annual Total												9,920.7						

Note: Figures from 1 Sep. to 27 Sep. were estimated by a hydraulic analysis.

44.3 180 x 1 x 30

Run-off STATION Julucito													
CAUCA RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA 939 km ² UNIT m ³ /sec. YEAR 1970													
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DATE
1	12.8	13.0	32.2	24.2	13.8	27.1	30.4	(42.4)	18.6	27.1	28.2	33.4	1
2	15.1	16.3	23.8	18.3	13.2	(42.4)	38.5	33.4	17.1	25.2	35.4	23.5	2
3	14.8	18.6	49.8	15.4	15.8	(42.4)	40.3	29.1	24.3	30.3	47.5	35.0	3
4	28.8	22.2	36.3	13.2	16.8	(42.4)	63.9	21.9	40.3	31.5	29.1	31.0	4
5	21.9	18.6	50.8	11.4	13.8	(42.4)	20.2	16.2	17.4	21.8	35.0	23.5	5
6	21.5	39.4	27.9	11.4	13.0	(42.4)	18.4	16.2	29.1	25.4	47.1	30.6	6
7	28.6	34.0	23.9	11.9	11.2	27.1	17.7	17.7	29.1	40.3	56.4	26.6	7
8	28.7	24.2	40.0	27.4	18.2	(42.4)	19.8	32.7	28.2	33.4	63.6	40.3	8
9	34.9	19.9	30.6	21.9	19.9	40.5	19.2	42.9	23.5	40.0	76.2	19.5	9
10	21.2	42.4	26.0	19.3	17.1	27.1	21.5	50.3	31.5	35.4	(90.2)	18.6	10
11	21.6	65.2	33.3	19.6	14.3	21.5	18.3	34.4	29.1	23.5	73.6	17.5	11
12	27.6	65.7	32.6	24.3	16.8	18.6	22.3	23.5	23.5	20.2	42.8	17.1	12
13	26.7	30.6	24.5	28.7	22.2	20.2	24.2	19.6	21.9	29.2	40.5	22.5	13
14	39.3	35.4	25.2	18.0	27.6	18.6	28.6	15.9	30.8	22.3	33.4	20.2	14
15	25.2	33.4	24.2	21.8	20.2	40.3	20.9	21.7	24.8	17.1	23.5	40.3	15
16	23.2	27.8	21.5	25.6	25.4	44.9	15.4	(42.4)	28.2	16.0	27.1	15.6	16
17	23.5	34.9	21.2	24.6	20.2	35.2	33.3	37.8	27.4	12.8	41.8	20.2	17
18	21.2	26.4	18.3	18.0	31.0	(42.4)	19.6	29.1	18.6	12.6	45.4	17.1	18
19	33.0	31.6	16.5	17.4	42.4	23.5	47.5	19.9	17.1	11.7	35.4	20.2	19
20	32.9	18.0	15.1	14.3	37.9	21.6	20.2	19.6	14.8	13.0	33.6	27.9	20
21	26.2	21.8	15.6	42.9	31.5	16.6	47.5	16.8	18.8	11.2	28.6	41.1	21
22	31.5	29.1	19.2	23.8	39.5	31.0	50.8	15.6	15.4	13.0	26.0	34.1	22
23	17.7	24.2	23.8	21.2	31.0	42.9	27.9	13.0	20.2	14.3	42.8	40.3	23
24	17.8	24.2	31.0	17.7	38.8	44.9	23.5	13.2	31.0	20.4	45.4	20.2	24
25	28.8	35.4	22.6	18.7	56.1	21.9	25.8	23.5	20.2	23.5	37.4	20.2	25
26	21.8	34.0	41.8	21.9	42.4	24.4	21.0	38.5	18.0	29.8	34.1	31.5	26
27	15.9	57.3	44.9	17.1	24.4	45.4	19.4	31.0	14.0	36.4	45.4	21.9	27
28	16.0	28.6	27.1	14.8	42.9	21.8	19.6	23.5	23.9	24.2	40.3	23.5	28
29	12.0		20.2	30.0	27.1	16.5	13.2	18.6	34.0	25.6	35.9	17.1	29
30	12.3		21.5	20.4	27.4	16.0	20.2	20.2	32.3	29.8	47.5	18.6	30
31	11.2		23.2		27.1		11.2	29.8		31.5		20.2	31
Sum	713.7	852.2	864.6	615.2	796.0	944.4	800.3	810.4	723.1	748.5	1,289.2	789.3	
Ave.	23.0	26.6	27.9	20.5	25.7	31.5	25.8	26.1	24.1	24.1	43.0	25.5	
Annual Total												9,935.7	

44.3 100 x 1 x 30

Run-off STATION Julucito													
CAUCA RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA 939 km ² UNIT m ³ /sec. YEAR 1971													
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DATE
1	20.2	21.2	23.5	50.7	20.2	22.2	18.6	27.4	23.1	11.0	31.0	21.5	1
2	17.1	21.5	23.2	97.5	28.2	20.2	21.2	34.0	19.3	12.4	37.4	22.2	2
3	20.2	23.8	21.8	135.6	20.2	21.2	23.5	29.8	23.6	17.1	39.9	21.5	3
4	17.1	23.8	31.0	53.3	19.2	27.1	19.9	22.2	21.4	26.1	32.3	23.5	4
5	23.5	42.9	27.1	44.8	19.6	27.1	16.2	23.5	20.2	21.6	35.4	18.9	5
6	45.4	31.0	21.8	36.4	35.4	33.4	16.8	18.6	18.3	20.2	29.0	18.3	6
7	47.9	29.1	18.9	33.0	33.0	40.5	22.0	18.3	18.4	17.1	23.2	17.7	7
8	108.6	31.0	18.3	38.8	21.6	27.1	(42.4)	19.9	19.3	16.2	24.2	18.3	8
9	104.9	26.4	16.8	29.4	22.2	19.2	(42.4)	20.6	20.2	16.2	25.8	17.7	9
10	88.9	35.4	16.5	25.6	23.5	16.6	(42.4)	29.1	19.3	17.1	33.4	15.6	10
11	40.3	27.9	15.6	24.8	33.0	16.8	(42.4)	20.2	20.4	37.9	20.2	16.2	11
12	36.9	40.8	21.9	22.2	43.9	20.4	(42.4)	16.8	19.8	23.2	18.3	14.6	12
13	32.0	34.0	33.4	22.5	33.4	22.5	45.4	17.1	19.6	23.5	18.4	15.4	13
14	28.7	29.0	20.2	32.6	33.6	19.2	42.6	23.5	23.4	21.9	17.1	14.8	14
15	28.6	25.6	18.6	21.9	33.4	21.6	31.5	22.2	18.7	17.1	20.5	14.6	15
16	36.6	23.5	19.2	29.8	27.1	32.2	20.2	14.3	18.0	14.3	19.2	14.3	16
17	42.9	27.1	17.8	25.2	27.1	31.5	16.8	15.6	19.7	15.4	23.2	16.0	17
18	47.9	35.0	18.9	33.0	22.2	24.8	15.6	16.6	18.6	18.7	42.9	17.7	18
19	40.3	45.4	20.2	40.3	31.2	25.0	13.8	14.3	17.9	18.3	23.8	20.2	19
20	37.8	41.3	31.5	27.1	37.9	18.4	19.3	15.4	21.2	16.8	33.4	28.2	20
21	47.0	31.8	25.6	27.1	27.1	15.4	20.4	16.8	23.0	18.9	29.1	23.8	21
22	40.3	35.9	23.5	22.2	42.9	20.8	27.5	15.4	20.3	25.8	27.1	34.0	22
23	32.6	27.8	20.2	28.8	29.1	18.6	(42.4)	14.3	20.7	19.5	26.7	18.3	23
24	30.6	24.8	32.3	36.7	29.8	15.4	46.3	15.4	19.4	25.4	27.1	28.9	24
25	27.1	21.8	27.1	27.1	27.4	19.2	20.2	15.4	18.7	18.9	35.4	22.5	25
26	21.5	22.2	48.2	23.5	28.6	21.8	24.4	18.4	18.9	27.1	40.3	45.4	26
27	26.8	25.6	29.0	31.2	25.4	20.2	16.8	18.3	18.3	35.9	34.0	33.4	27
28	25.4	24.2	31.5	23.2	29.8	27.1	21.8	14.3	18.1	25.8	27.1	25.2	28
29	21.5		42.9	19.2	29.1	23.4	18.3	20.2	17.8	20.5	23.2	22.5	29
30	25.1		42.9	18.6	37.9	19.9	18.7	(42.4)	18.0	28.2	21.5	22.2	30
31	20.2		61.8		23.5		21.9	31.5		23.5		24.2	31
Sum	1,187.9	829.8	821.2	1,082.1	896.5	690.8	834.1	641.8	593.4	651.6	838.1	667.6	
Ave.	38.3	26.6	26.5	36.1	28.9	23.0	26.9	20.7	19.8	21.0	27.9	21.5	
Annual Total												9,734.9	

Note: Figures from 1 Sep. to 30 Sep. were estimated by a hydraulic analysis.

44.3 100 x 1 x 30

Run-off STATION Malvasa													
PALACE RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA 35 km ² UNIT m ³ /sec. YEAR 1961													
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1						1.4	18.6	5.5	1.8	1.7	2.9	2.0	1
2						2.6	12.1	8.3	1.7	1.5	4.1	1.8	2
3						2.7	16.6	10.2	1.5	1.4	4.8	1.5	3
4						1.9	13.6	8.7	2.0	1.5	6.5	1.5	4
5						2.4	17.7	10.1	1.7	1.4	8.6	1.4	5
6						3.2	12.1	10.2	1.9	1.2	8.9	1.4	6
7						5.8	9.4	11.7	2.5	1.3	5.6	2.5	7
8						3.8	5.4	11.3	2.4	1.8	3.8	2.5	8
9					1.2	2.4	5.3	12.6	1.9	1.9	2.9	3.2	9
10					1.2	1.7	4.0	11.6	1.6	1.8	3.5	3.0	10
11					1.5	2.8	3.2	11.8	1.4	2.2	3.8	3.6	11
12					1.9	5.4	2.9	11.4	1.2	3.5	3.0	3.9	12
13					1.6	4.4	3.8	7.9	1.4	4.2	2.4	2.3	13
14					2.0	2.4	3.9	5.9	1.6	5.2	4.0	1.8	14
15					2.0	2.3	3.6	4.2	1.3	6.5	4.0	1.5	15
16					1.8	4.0	9.4	3.9	1.2	4.2	3.6	1.5	16
17					2.4	26.6	13.7	3.4	1.4	6.5	3.6	1.6	17
18					1.8	21.2	3.6	3.2	1.4	5.5	3.7	1.5	18
19					2.4	10.4	5.4	2.8	1.6	2.8	3.5	1.3	19
20					1.9	4.8	8.1	4.0	1.8	2.4	3.2	1.3	20
21					2.0	2.9	5.7	5.2	1.9	3.3	2.9	1.3	21
22					1.5	2.7	5.2	6.3	1.9	3.7	2.4	1.3	22
23					1.3	5.9	4.4	3.6	1.8	5.3	2.2	1.2	23
24					1.7	7.0	3.6	2.7	1.5	4.9	2.0	1.2	24
25					3.0	8.7	3.0	4.1	1.5	4.2	1.7	1.2	25
26					4.4	10.0	6.0	3.1	1.3	3.1	1.6	1.1	26
27					4.0	10.0	12.0	2.6	1.2	2.6	1.5	1.0	27
28					2.4	7.1	15.7	2.0	1.2	2.5	2.1	1.2	28
29					1.7	9.5	13.3	1.8	1.5	2.0	2.5	1.2	29
30					1.5	33.5	9.7	1.9	2.3	1.5	2.5	1.2	30
31					1.5		6.3	1.8		1.8		1.2	31
Sum					46.7	209.5	257.3	193.8	49.4	91.4	107.8	54.2	
Ave.					2.0	7.0	8.3	6.2	1.6	2.9	3.6	1.7	
Annual Total													
44.3 100 x 1 x 30													

Run-off STATION Malvasa													
PALACE RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA 35 km ² UNIT m ³ /sec. YEAR 1962													
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	1.26	0.96	0.87	1.44	3.39	2.76	3.70	23.71	2.88	1.44	3.12	1.54	1
2	1.59	0.96	0.85	2.25	3.32	2.96	3.88	23.00	2.88	1.41	3.12	1.26	2
3	1.99	0.96	0.85	2.22	6.90	7.44	5.09	27.53	3.20	1.87	2.64	1.21	3
4	1.54	0.96	0.85	2.25	5.25	21.00	5.93	26.62	8.56	2.12	2.32	1.17	4
5	1.31	0.96	0.87	3.75	3.51	17.45	5.98	20.75	5.30	2.19	1.96	1.19	5
6	1.39	0.90	0.90	3.47	3.28	9.65	5.51	18.48	5.51	2.80	1.93	1.57	6
7	1.13	0.90	1.35	1.88	2.25	8.39	6.67	14.72	4.82	2.88	1.93	2.64	7
8	1.09	0.92	3.03	1.68	1.91	4.98	7.63	11.10	3.47	4.48	1.93	2.52	8
9	1.56	0.96	4.81	1.39	3.46	3.88	8.39	7.48	3.00	5.46	1.65	3.39	9
10	1.21	0.96	5.67	1.21	2.84	3.84	8.39	4.11	2.76	4.84	2.29	3.47	10
11	1.76	1.09	3.76	1.15	3.12	3.24	9.21	2.52	3.27	4.43	2.76	3.12	11
12	2.42	1.09	2.54	1.09	3.12	2.76	10.95	2.09	3.58	4.02	3.08	2.92	12
13	2.45	1.09	2.43	1.09	4.20	2.72	11.64	2.76	2.84	2.80	3.50	2.64	13
14	2.02	1.09	1.44	1.09	3.47	2.52	10.01	3.76	2.88	2.64	3.88	2.35	14
15	1.54	1.07	1.29	1.09	3.12	2.32	9.38	4.60	7.61	2.64	3.97	2.32	15
16	1.31	1.02	2.02	1.09	3.46	2.05	8.84	6.15	5.20	2.66	4.60	2.25	16
17	1.29	1.02	3.40	1.07	6.83	1.76	9.95	7.32	4.34	2.07	3.84	1.93	17
18	1.24	1.62	2.80	0.98	4.71	1.62	12.56	8.27	3.35	1.41	3.58	1.76	18
19	1.21	1.44	2.25	1.15	6.61	1.31	12.97	7.56	3.35	1.44	4.76	1.70	19
20	1.15	1.39	2.02	1.26	8.52	2.07	13.76	5.94	2.92	1.36	5.41	1.56	20
21	1.09	1.36	1.76	1.26	7.08	3.00	15.74	4.65	2.60	1.79	4.71	1.44	21
22	1.15	1.24	1.99	1.29	5.87	4.41	13.98	4.15	2.19	2.47	3.70	1.44	22
23	1.39	1.19	2.32	1.39	5.36	4.71	11.64	3.84	1.65	2.64	3.24	1.31	23
24	1.36	1.15	2.60	1.49	4.71	5.94	10.16	3.47	1.44	2.15	3.60	1.21	24
25	1.24	1.04	3.35	2.29	4.54	7.56	9.06	3.47	1.44	2.02	3.60	1.21	25
26	1.21	0.94	2.88	1.96	4.30	10.10	8.48	2.39	1.44	2.37	3.27	1.21	26
27	1.11	0.90	2.52	2.12	3.62	8.89	9.90	1.62	1.36	2.57	2.32	2.00	27
28	1.13	0.90	2.22	2.32	3.24	6.83	13.74	1.44	1.34	2.42	1.96	2.80	28
29	1.07	-	1.82	3.47	3.04	6.15	21.45	1.68	1.56	2.64	1.59	3.12	29
30	1.00		1.56	4.20	3.39	5.30	26.23	1.85	1.46	2.88	1.59	2.39	30
31	0.96		1.49		3.47		22.27	1.85		3.12		2.22	31
Sum	43.17	30.08	68.51	54.39	131.87	167.61	331.08	256.88	98.20	82.01	91.85	62.84	
Ave.	1.39	1.07	2.23	1.81	4.25	5.59	10.70	8.29	3.27	2.65	3.06	2.03	
Annual Total													1,418.49
44.3 100 x 1 x 30													

Run-off		STATION Malvassa											
PALACE RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA. 35 km ² UNIT m ³ /sec. YEAR 1963													
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	2.02	1.91	1.68	1.54	1.59	1.44	1.85	3.20	2.32	1.99	3.76	1.51	1
2	1.88	1.59	1.46	1.36	12.60	1.57	2.10	3.47	2.12	4.10	8.08	1.49	2
3	1.82	1.59	1.36	1.36	5.30	1.51	2.42	4.32	2.39	3.58	10.95	1.44	3
4	1.59	2.06	1.36	1.49	4.11	1.44	2.82	5.67	4.11	2.64	11.18	1.76	4
5	1.59	1.96	1.41	1.59	3.12	1.44	2.35	4.65	5.67	2.42	9.64	3.04	5
6	1.39	1.59	1.79	1.76	2.45	2.24	2.12	4.11	5.36	1.85	8.94	4.24	6
7	1.36	1.93	2.12	1.62	2.15	4.98	1.85	3.70	5.04	1.68	8.56	5.82	7
8	1.70	1.99	2.22	1.76	2.45	5.03	1.68	2.88	3.64	1.68	7.79	4.65	8
9	2.02	1.46	2.49	1.73	2.68	4.54	1.51	2.88	3.47	1.59	7.26	3.93	9
10	2.05	1.51	2.29	1.54	4.39	2.88	1.44	3.72	3.12	1.51	11.52	3.39	10
11	1.80	4.96	2.25	1.73	3.83	2.64	1.44	4.54	3.20	1.51	11.19	3.35	11
12	1.59	2.25	2.09	1.76	2.52	5.83	1.44	6.34	3.00	1.51	9.46	3.24	12
13	1.59	2.07	1.93	1.65	4.60	7.75	1.44	6.22	3.00	1.51	8.74	2.82	13
14	1.39	1.68	1.68	1.59	3.97	4.11	1.59	4.98	2.88	1.44	8.48	3.00	14
15	1.21	1.51	1.68	1.56	7.50	5.68	1.85	4.24	4.24	1.39	7.31	2.88	15
16	1.21	1.68	1.56	1.44	9.05	16.52	2.12	3.84	5.20	1.36	6.50	2.76	16
17	1.21	2.05	1.46	1.93	4.62	14.54	1.76	3.28	4.46	1.51	5.04	2.64	17
18	1.24	2.09	1.34	2.68	2.76	11.88	1.59	2.88	3.18	1.54	4.24	2.32	18
19	1.21	1.85	1.29	2.35	2.20	6.44	1.46	2.42	3.29	1.49	3.11	2.22	19
20	1.17	1.51	1.29	2.29	2.02	4.96	1.44	2.22	3.04	1.36	2.64	1.93	20
21	1.21	1.24	1.29	2.76	1.76	4.65	1.44	2.02	2.84	1.24	2.64	1.85	21
22	1.32	1.46	1.66	2.36	1.62	4.11	1.72	2.05	2.64	1.17	2.64	2.03	22
23	1.24	2.52	1.99	2.03	1.51	4.11	3.90	1.51	1.85	1.13	1.93	2.12	23
24	1.29	2.84	1.88	1.76	1.51	3.77	4.76	1.44	1.85	1.02	1.93	2.02	24
25	1.26	2.80	1.82	1.62	1.54	3.58	4.11	1.44	1.93	0.96	1.88	1.72	25
26	4.20	2.52	1.76	1.51	1.76	3.58	3.70	2.16	1.68	0.96	1.79	1.59	26
27	2.60	2.42	1.70	1.51	1.76	2.88	3.36	2.88	1.41	0.96	1.72	1.51	27
28	2.05	2.13	1.49	1.49	1.76	2.42	2.88	2.56	1.51	2.50	1.59	1.44	28
29	1.63		1.36	1.54	2.22	2.32	2.52	3.16	1.65	3.12	1.51	1.44	29
30	1.44		1.76	1.59	1.85	2.02	3.35	3.47	1.63	2.76	1.51	1.44	30
31	1.46		1.59		1.62		3.47	2.80		3.47		1.44	31
Sum	50.72	57.17	53.05	52.90	102.82	140.86	71.48	105.05	91.72	56.95	173.53	77.03	
Ave.	1.64	2.04	1.71	1.76	3.32	4.69	2.30	3.39	3.05	1.84	5.78	2.48	
Annual Total												1,033.28	
443 100 x 1 x 30													

4.4.3 100 x 1 x 30

Run-off			STATION Malvassa											
PALACE RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA 35 km ² UNIT											m ³ /sec.		YEAR 1964	
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	DATE	
1	1.36	0.66	0.59	0.98	1.34	3.51	5.74	5.82	9.62	2.12	5.36	1.85	1	
2	1.29	0.63	0.60	0.93	1.29	3.35	4.11	6.30	13.88	2.76	4.87	1.85	2	
3	1.21	0.63	0.59	0.90	1.29	6.65	3.47	8.39	11.64	3.08	4.24	2.12	3	
4	1.13	0.59	0.59	0.96	1.29	5.15	3.35	7.67	8.74	3.83	4.54	2.47	4	
5	1.09	0.60	0.54	0.90	1.21	4.62	2.68	7.08	6.83	4.11	3.97	2.45	5	
6	1.07	0.68	0.59	0.87	1.12	5.20	2.29	6.67	5.87	5.36	3.58	2.22	6	
7	1.12	0.63	0.70	0.79	1.09	7.08	3.56	6.32	5.46	4.51	3.58	2.12	7	
8	0.90	0.61	0.68	0.94	0.98	5.91	4.89	5.51	5.15	4.24	4.87	2.07	8	
9	0.85	0.59	0.63	1.21	0.96	4.11	4.38	6.50	5.04	3.90	5.56	1.97	9	
10	0.85	0.59	0.59	1.36	1.67	3.08	3.97	6.21	4.87	7.41	4.93	2.71	10	
11	0.85	0.59	0.59	1.72	1.44	2.12	3.46	5.51	4.87	7.32	4.43	2.88	11	
12	0.79	1.70	0.59	1.93	1.29	1.76	3.24	4.82	4.87	6.61	4.38	3.47	12	
13	0.79	2.03	0.59	2.22	1.64	1.67	3.24	4.38	4.11	11.87	3.77	4.04	13	
14	0.79	1.63	0.59	2.32	2.17	1.51	2.84	4.38	3.75	16.35	3.39	3.19	14	
15	0.85	1.34	0.59	2.76	6.88	2.76	2.76	3.91	3.47	14.98	2.94	2.29	15	
16	0.79	1.29	0.59	2.76	9.91	9.35	2.82	3.58	3.35	10.26	3.06	2.12	16	
17	0.76	1.29	0.59	2.70	8.21	16.57	3.04	3.35	3.18	11.18	2.52	2.12	17	
18	0.74	1.19	0.65	2.45	5.85	14.02	3.35	3.18	3.06	9.64	2.39	1.93	18	
19	0.74	0.98	0.68	2.22	2.52	5.89	3.23	3.98	2.88	8.62	2.22	1.85	19	
20	0.68	0.79	0.65	2.12	2.39	4.54	2.96	4.31	2.76	6.56	2.22	2.32	20	
21	0.63	0.74	0.63	2.12	1.67	3.58	2.94	3.97	2.58	5.82	2.22	3.47	21	
22	0.63	0.70	0.72	2.12	3.09	3.20	5.51	4.71	2.42	5.04	2.12	3.58	22	
23	0.66	0.68	0.70	2.02	4.06	4.47	11.29	4.79	2.42	4.87	2.12	3.71	23	
24	0.68	0.63	0.68	1.93	3.46	5.09	8.03	5.74	2.25	4.87	1.93	3.84	24	
25	0.65	0.63	0.68	1.88	3.18	3.75	8.15	9.94	2.22	7.93	1.89	4.64	25	
26	0.66	0.63	0.63	5.51	2.56	3.12	8.03	11.98	2.22	9.46	1.85	11.91	26	
27	0.68	0.63	0.63	4.15	2.45	3.12	7.20	10.03	2.22	8.74	1.76	13.04	27	
28	0.68	0.59	0.63	2.37	2.15	3.15	6.73	8.00	2.19	7.32	1.76	12.09	28	
29	0.65	0.59	0.63	1.67	2.88	3.66	6.67	7.32	2.12	6.67	1.68	11.07	29	
30	0.68		0.63	1.26	3.16	5.42	6.23	5.98	2.12	6.50	1.88	10.71	30	
31	0.74		0.87		3.35		5.98	5.51		5.82		10.24	31	
Sum	25.99	24.86	19.64	58.07	86.55	147.41	146.14	185.84	136.16	217.75	96.03	136.34		
Ave.	0.84	0.86	0.63	1.94	2.79	4.91	4.71	5.99	4.56	7.02	3.20	4.40		
Annual Total												1,289.78		

4.4.3 100 x 1 x 30

Run-off		STATION Malvass											
PALACE RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA 35 km ²												UNIT	YEAR 1967
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DATE
1	1.85	1.97	1.11	2.88	1.73	7.58	12.09	11.19	2.67	2.52	4.82	3.24	1
2	1.85	1.82	1.02	2.60	1.56	6.71	16.67	8.77	2.45	2.56	3.97	2.80	2
3	1.62	1.68	0.96	2.25	1.51	5.98	19.71	5.88	2.12	2.52	2.72	2.49	3
4	2.12	1.55	0.96	2.02	1.46	13.14	17.79	8.84	2.12	2.49	2.42	2.88	4
5	2.92	2.25	0.90	1.85	1.44	18.82	12.56	10.00	1.99	2.35	2.56	2.72	5
6	2.76	3.00	0.85	1.68	1.44	13.20	15.74	13.87	1.93	2.19	2.35	2.52	6
7	2.37	2.61	1.04	1.59	2.80	8.23	12.97	12.56	1.79	2.02	2.22	2.35	7
8	1.96	2.32	0.96	1.46	2.64	6.38	10.01	11.11	1.65	1.85	2.09	2.02	8
9	1.88	2.15	1.02	1.63	1.82	5.20	7.71	10.00	1.59	1.85	1.90	1.73	9
10	1.71	1.85	1.02	1.76	1.73	11.95	6.33	9.06	1.55	1.85	1.88	1.59	10
11	1.59	1.59	0.96	1.59	2.35	9.34	5.13	8.15	1.49	1.93	1.76	1.93	11
12	1.56	1.49	1.04	1.96	2.12	7.95	3.84	6.50	1.44	2.02	1.79	1.85	12
13	1.44	1.31	1.05	1.85	1.82	6.87	3.12	5.98	1.51	1.88	2.60	1.76	13
14	1.74	1.82	1.02	1.76	1.59	3.75	2.80	4.60	1.51	1.85	4.35	1.65	14
15	3.16	1.73	1.02	1.76	1.59	7.63	2.52	4.38	1.44	1.76	2.80	1.56	15
16	2.82	1.44	1.48	1.62	1.49	9.35	2.09	4.11	1.31	1.68	2.22	1.51	16
17	2.76	1.36	1.71	2.02	1.36	8.92	1.85	6.42	1.26	1.68	1.85	1.51	17
18	2.76	1.29	1.85	2.76	2.35	7.55	2.68	28.08	1.39	1.56	1.85	1.44	18
19	2.47	1.21	1.89	3.77	2.76	6.73	3.12	18.59	1.54	1.44	2.00	1.24	19
20	2.29	1.21	2.02	3.77	2.47	5.72	2.60	14.94	2.41	1.36	5.04	1.21	20
21	1.97	1.12	2.42	3.70	2.47	6.06	2.32	12.09	2.88	1.29	6.41	1.21	21
22	2.57	1.60	2.32	6.42	2.29	10.51	2.02	10.00	2.45	1.29	5.56	1.15	22
23	2.19	1.56	2.42	6.27	2.09	21.33	3.60	8.57	2.32	1.29	3.35	1.09	23
24	2.02	1.48	2.58	5.35	1.88	27.13	5.77	7.95	2.22	1.21	5.19	1.09	24
25	2.70	1.32	3.41	4.46	1.76	28.60	7.00	7.63	1.91	1.21	6.84	3.97	25
26	2.42	1.19	2.84	3.84	3.07	21.21	8.92	6.45	1.76	1.46	5.56	3.39	26
27	2.09	1.15	1.88	2.96	3.80	18.47	15.43	5.14	1.76	1.65	5.56	3.04	27
28	1.89	1.15	1.23	2.73	3.39	11.34	19.07	3.12	1.76	1.63	4.75	2.39	28
29	2.80		3.85	1.93	3.51	12.02	18.93	2.80	2.09	1.59	4.25	1.94	29
30	2.45		4.87	1.82	4.24	13.68	15.39	2.68	2.52	2.84	3.62	1.54	30
31	2.05		4.02		3.71		12.81	3.29		3.20		1.64	31
Sum Ave.	68.78	46.22	55.72	82.06	70.24	341.35	277.61	272.75	56.83	58.00	104.28	62.25	
	2.22	1.65	1.80	2.73	2.26	11.38	8.96	8.80	1.89	1.87	3.48	2.01	
Annual Total												1,496.09	
44.3 100 x 1 x 30													

Run-off		STATION Malvass											
PALACE RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA 35 km ²												UNIT	YEAR 1968
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DATE
1	1.44	1.39	1.11	1.85	3.20	3.39	16.64	17.91	1.73	1.60	1.26	10.00	1
2	1.39	1.72	1.31	1.73	3.08	4.15	20.07	19.60	1.51	1.26	1.59	8.92	2
3	1.29	2.04	1.49	1.71	2.84	5.36	24.88	20.28	1.33	1.02	1.93	8.38	3
4	1.29	2.62	1.44	2.44	2.60	7.63	23.72	20.05	1.60	1.24	1.93	7.71	4
5	1.21	3.00	1.34	3.16	2.52	8.74	22.74	18.23	1.52	1.98	1.76	6.50	5
6	1.21	2.85	1.26	3.16	2.42	10.00	21.45	18.37	2.90	1.04	1.44	6.09	6
7	1.44	2.38	1.11	3.04	2.88	14.33	20.86	17.33	1.73	3.24	1.29	5.41	7
8	1.39	1.79	1.08	3.00	3.39	14.09	20.28	16.35	1.70	2.92	1.26	4.76	8
9	1.36	1.57	1.49	2.88	3.64	13.53	19.26	15.22	1.43	2.86	1.44	4.49	9
10	1.36	1.44	1.44	2.49	4.06	13.53	18.26	14.10	2.07	2.64	1.65	4.06	10
11	1.29	1.36	1.41	2.32	4.38	12.09	21.45	13.87	2.14	2.52	1.68	3.84	11
12	1.21	1.33	1.26	2.32	4.38	11.75	23.45	13.53	1.67	2.42	1.74	3.70	12
13	1.44	1.21	1.13	2.22	4.71	12.97	21.68	13.21	1.68	2.42	1.88	3.39	13
14	1.39	1.19	1.09	2.02	5.04	15.22	21.21	12.80	1.47	2.29	1.93	3.12	14
15	1.36	1.15	1.09	2.57	5.20	16.26	20.55	12.32	1.26	2.19	2.05	2.88	15
16	1.29	1.09	1.39	2.92	5.36	17.68	20.05	2.37	1.70	2.12	2.25	2.52	16
17	1.29	1.15	1.41	3.58	6.09	17.79	19.76	2.34	1.65	2.09	2.53	2.35	17
18	1.21	1.17	1.22	3.66	5.56	17.56	19.04	2.10	1.65	2.42	2.64	2.02	18
19	1.21	1.15	1.51	3.47	5.35	17.10	18.03	2.17	1.70	2.12	2.92	1.85	19
20	1.15	1.09	1.71	3.31	5.15	16.64	17.56	1.80	2.12	1.90	3.08	1.85	20
21	1.09	1.13	2.43	3.31	4.96	15.65	19.71	2.50	1.86	1.62	3.35	1.59	21
22	1.09	1.09	2.56	3.43	4.87	15.22	19.93	2.00	1.68	1.59	3.58	1.56	22
23	1.02	1.09	2.39	3.66	4.54	14.65	19.37	1.82	1.53	1.59	4.40	1.51	23
24	0.96	1.09	2.76	3.75	4.02	13.98	18.26	1.40	1.91	1.59	5.94	1.62	24
25	1.17	1.15	2.42	3.93	3.70	13.29	17.56	1.37	1.80	1.56	6.50	1.55	25
26	2.72	1.15	2.15	3.84	3.58	14.88	17.10	1.07	1.88	1.36	8.27	1.51	26
27	2.29	1.13	1.90	3.70	3.47	16.26	16.52	1.19	1.95	1.26	9.57	1.39	27
28	1.93	1.09	1.59	3.51	3.29	18.03	16.52	1.52	2.03	1.21	10.09	1.36	28
29	1.65	1.15	1.85	3.47	3.20	18.08	16.26	1.32	2.02	1.21	10.00	1.29	29
30	1.41		1.20	3.35	3.04	17.22	15.61	1.59	2.05	1.21	10.00	1.29	30
31			1.85		2.88		15.11	1.95		1.29		1.21	31
Sum Ave.	42.94	42.76	50.09	89.80	123.40	407.07	602.79	272.29	53.27	59.80	109.85	109.82	
	1.38	1.47	1.62	2.99	3.98	13.57	19.44	8.78	1.78	1.93	3.66	3.54	
Annual Total												1,963.89	
44.3 100 x 1 x 30													

Note: Figures from 16 Aug. to 5 Oct. were estimated by a hydraulic analysis.

Run-off			STATION											Malvassa			
PALACE RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA													35 km ²	UNIT	m ³ /sec.	YEAR	1969
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DATE				
1	0.87	0.92	1.08	1.19	(10.50)	1.92	(10.50)	2.37	3.02	2.54	2.60	0.87	1				
2	0.87	1.14	1.08	1.30	10.50	3.02	(10.50)	2.12	2.42	2.96	2.27	1.03	2				
3	0.87	1.29	1.03	1.92	8.27	5.38	(10.50)	1.92	2.32	6.42	2.02	1.66	3				
4	0.78	1.50	0.98	2.02	7.70	7.18	(10.50)	1.81	1.82	4.86	1.92	1.50	4				
5	0.73	1.50	0.98	2.02	6.10	10.50	(10.50)	1.40	1.60	7.03	2.22	1.24	5				
6	0.68	1.71	0.98	2.27	5.74	7.10	(10.50)	1.29	1.29	5.47	2.84	1.35	6				
7	0.64	1.92	0.87	2.37	5.04	5.48	(10.50)	1.34	1.29	3.54	3.88	1.19	7				
8	0.59	1.82	0.87	2.54	4.87	5.48	(10.50)	1.61	1.24	2.72	4.46	1.08	8				
9	0.59	1.66	0.87	2.54	4.87	6.92	3.64	1.76	1.14	2.22	4.16	1.40	9				
10	0.54	1.56	0.92	2.66	4.09	5.48	2.26	1.87	1.08	1.92	4.09	1.24	10				
11	0.49	1.50	0.98	2.96	3.34	4.23	10.27	2.02	1.08	1.66	3.41	1.14	11				
12	0.68	1.29	0.78	3.15	2.42	3.41	9.15	2.54	1.29	1.61	2.90	0.98	12				
13	0.98	1.29	0.68	3.41	2.12	2.66	8.49	2.54	1.45	1.56	2.54	0.98	13				
14	1.40	1.19	0.59	3.54	2.12	2.22	8.04	2.96	1.56	3.68	2.12	1.08	14				
15	1.82	1.08	0.59	3.81	1.92	1.76	7.58	3.02	1.61	6.72	1.82	0.98	15				
16	2.02	0.98	0.59	4.09	1.76	1.71	6.92	3.41	1.61	8.48	1.66	1.24	16				
17	2.42	0.87	0.78	4.37	1.71	2.12	5.92	3.67	1.45	6.43	2.02	1.45	17				
18	3.02	1.08	0.78	4.54	1.40	2.22	5.03	3.67	1.19	3.75	2.02	1.56	18				
19	3.54	1.19	0.78	4.86	1.40	2.66	5.92	4.02	1.19	2.60	1.71	1.92	19				
20	4.09	1.24	0.98	5.56	1.82	2.90	6.42	4.23	1.08	2.17	2.02	1.66	20				
21	4.23	1.29	0.98	6.10	1.87	3.41	5.30	4.37	1.14	1.97	2.12	1.45	21				
22	4.02	1.34	0.98	7.66	2.02	3.41	6.42	4.95	1.08	2.02	1.97	1.40	22				
23	3.67	1.24	0.87	8.04	2.02	4.23	8.04	5.29	1.19	2.32	2.17	1.34	23				
24	3.22	1.14	0.78	8.27	1.92	4.23	6.92	5.38	1.08	6.61	2.07	1.29	24				
25	2.90	1.14	0.88	8.82	2.17	5.03	5.83	5.65	1.14	8.48	1.92	1.14	25				
26	2.42	1.24	0.98	8.93	2.22	8.60	5.56	5.74	1.45	5.06	1.92	0.87	26				
27	2.02	1.40	1.08	3.29	2.32	10.27	5.30	5.20	1.92	3.68	1.66	3.33	27				
28	1.76	1.50	1.08	2.93	2.37	5.87	4.24	4.64	3.48	4.78	1.24	0.68	28				
29	1.34		1.08	2.07	1.92	8.55	3.28	3.88	3.75	4.95	1.08	2.48	29				
30	1.24		1.08	(10.50)	1.92	8.60	3.02	3.54	2.54	4.32	0.87	0.64	30				
31	0.98		1.08		1.71		2.66	3.41		3.09		0.89	31				
Sum	55.62	37.02	28.06	127.73	110.15	156.55	220.21	101.63	49.50	125.62	69.70	41.05					
Ave.	1.79	1.32	0.91	4.26	3.55	4.89	7.10	3.28	1.65	4.05	2.32	1.32					
Annual Total												1,112.64					
44.3 100 x 1 x 30																	

Run-off		STATION Malvassa												PALACE RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA 35 km ² UNIT		m ³ /sec. YEAR 1970	
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DATE				
1	0.59	0.40	1.92	1.56	2.37	6.61	3.81	(10.50)	5.12	6.84	5.22	2.90	1				
2	0.54	0.49	1.81	1.24	2.32	(10.50)	5.04	8.45	4.02	5.47	7.81	2.54	2				
3	0.49	0.40	4.78	1.14	2.27	(10.50)	7.02	4.88	3.28	7.60	6.40	2.37	3				
4	0.64	0.73	3.02	1.45	1.92	(10.50)	7.60	3.22	3.15	6.30	6.82	2.90	4				
5	0.68	1.08	3.34	1.71	1.40	(10.50)	4.74	3.15	3.03	6.71	6.71	4.23	5				
6	0.73	1.66	2.22	2.02	1.34	(10.50)	3.28	3.34	3.67	7.12	6.61	4.23	6				
7	1.03	2.27	1.82	2.78	1.24	6.61	2.78	5.92	4.46	7.70	7.58	3.95	7				
8	1.34	1.92	1.66	3.82	1.03	(10.50)	3.15	6.92	4.95	7.02	8.27	3.41	8				
9	1.50	1.82	1.67	4.70	1.82	10.11	4.48	8.60	7.02	7.70	9.38	2.72	9				
10	1.71	3.56	1.40	2.78	1.96	6.62	6.92	6.01	8.27	5.48	(10.50)	2.54	10				
11	1.92	5.38	1.50	1.92	3.34	5.86	5.22	6.61	8.26	4.37	9.16	2.32	11				
12	2.72	5.56	3.15	1.97	5.06	3.88	3.48	5.47	6.40	3.41	7.36	2.22	12				
13	3.54	4.54	2.38	2.02	8.82	4.02	3.61	6.30	5.06	3.02	6.10	1.92	13				
14	2.90	3.74	2.27	1.50	7.70	3.54	3.34	5.38	4.95	2.66	6.92	1.92	14				
15	2.17	2.72	1.82	1.45	6.04	2.90	3.41	3.70	3.88	2.48	5.92	1.92	15				
16	1.71	2.42	1.34	2.60	5.38	2.90	2.55	(10.50)	3.34	2.60	5.12	1.71	16				
17	1.71	1.72	1.14	4.02	5.56	5.83	2.78	9.52	5.20	2.48	5.48	1.61	17				
18	1.45	1.50	1.08	3.28	6.96	(10.50)	3.15	8.26	4.34	2.48	6.40	1.61	18				
19	1.29	1.56	1.03	3.02	(10.50)	5.27	3.60	5.96	4.09	2.37	7.46	1.76	19				
20	1.03	1.19	0.82	2.96	9.54	4.70	3.54	3.81	3.48	3.02	6.96	4.16	20				
21	1.56	1.60	0.78	2.78	7.94	5.74	3.15	3.95	3.02	3.22	6.01	5.92	21				
22	1.56	2.72	0.73	2.78	7.16	6.92	1.60	3.08	2.90	2.90	5.56	5.64	22				
23	1.08	3.67	0.68	2.78	9.60	8.26	2.66	2.35	3.88	2.72	4.62	6.23	23				
24	0.92	3.34	2.22	2.54	9.74	6.92	4.02	2.60	4.23	2.48	5.47	3.48	24				
25	0.78	5.30	1.92	2.48	13.01	6.10	7.70	3.22	3.88	2.42	5.47	2.72	25				
26	0.78	6.61	1.66	2.32	(10.50)	5.65	3.82	4.23	3.02	1.92	5.04	2.54	26				
27	0.64	4.78	1.56	2.02	5.65	5.83	3.02	5.04	3.54	2.42	3.95	2.42	27				
28	0.44	3.10	2.07	2.66	3.81	6.92	3.15	5.92	5.14	3.56	3.68	1.92	28				
29	0.50		2.32	3.34	4.09	4.70	3.02	7.12	5.74	3.74	3.08	1.76	29				
30	0.54		2.12	4.18	4.78	3.48	4.16	5.65	6.82	4.02	3.02	1.61	30				
31	0.40		2.02		5.47		6.12	5.47		3.60		1.61	31				
Sum	38.89	75.78	57.65	75.82	168.32	202.87	126.92	175.13	138.34	129.83	188.08	86.19					
Ave.	1.25	2.71	1.86	2.53	5.43	6.76	4.09	5.65	4.61	4.19	6.27	2.78					
Annual Total												1,463.82					
44.3 100 x 1 x 30																	

Run-off		STATION <u>Malvosa</u>													
PALACE RIVER, IN THE BASIN OF CAUCA CATCHMENT AREA <u>35 km²</u>												UNIT	<u>m³/sec.</u>	YEAR	<u>1971</u>
DATE	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	DATE		
1	1.61	1.40	1.82	5.04	3.57	3.82	6.01	3.34	5.10	1.40	3.70	1.08	1		
2	1.50	1.50	2.07	7.58	6.98	3.15	4.28	3.22	2.90	1.18	4.56	2.02	2		
3	1.50	1.50	2.17	9.82	3.57	2.74	3.82	5.56	5.24	0.87	9.38	1.29	3		
4	1.66	1.45	2.22	5.74	2.84	3.02	2.50	6.10	4.30	1.82	5.24	1.76	4		
5	1.92	1.45	2.78	3.76	3.15	3.28	2.12	5.27	3.56	2.24	6.01	1.50	5		
6	2.37	1.40	3.02	2.60	8.95	3.16	1.87	5.14	1.82	2.55	3.56	1.56	6		
7	4.02	1.50	2.48	2.32	8.35	2.96	4.56	2.96	2.06	2.84	1.82	1.82	7		
8	8.27	1.40	2.12	2.22	4.38	3.82	(10.50)	2.54	2.90	2.36	1.50	1.08	8		
9	8.04	1.40	2.17	1.92	4.68	2.35	(10.50)	2.78	3.58	1.82	2.83	1.56	9		
10	7.03	1.71	1.92	1.71	5.27	2.55	(10.50)	4.17	2.92	1.50	6.51	1.08	10		
11	5.38	2.22	1.71	1.71	8.35	2.22	(10.50)	6.82	3.70	1.76	5.24	1.08	11		
12	3.02	2.84	1.18	1.71	10.81	1.29	(10.50)	5.74	3.28	6.01	3.70	0.98	12		
13	2.72	3.02	1.08	1.56	8.45	1.71	(10.50)	3.56	3.15	6.20	4.47	1.24	13		
14	2.38	3.54	1.03	1.50	8.50	1.29	(10.50)	3.76	5.24	4.38	5.24	1.56	14		
15	2.02	4.23	1.14	2.33	8.45	1.34	7.18	3.28	2.41	3.82	4.16	1.60	15		
16	2.22	3.68	1.08	2.60	6.62	2.35	4.02	1.82	1.29	2.35	2.90	1.08	16		
17	2.84	3.22	1.29	3.62	6.62	2.56	3.02	2.80	3.26	1.82	1.92	1.03	17		
18	4.02	2.90	1.56	5.65	4.68	1.24	2.72	2.60	2.30	1.50	1.82	2.31	18		
19	4.16	2.66	4.23	4.37	7.86	1.56	2.22	3.82	1.18	1.50	3.56	3.28	19		
20	4.23	2.54	3.41	4.02	9.54	1.50	2.17	3.81	4.17	3.15	2.55	3.83	20		
21	3.95	2.42	3.41	3.89	6.62	1.29	2.72	3.08	5.06	2.55	1.14	2.96	21		
22	3.54	2.22	3.08	2.60	10.61	1.76	6.75	2.47	3.62	3.28	3.82	2.47	22		
23	3.74	1.92	2.90	2.66	7.25	1.50	(10.50)	2.17	3.88	2.35	4.38	2.47	23		
24	3.41	1.82	2.37	2.72	.46	1.50	11.28	4.30	2.96	2.78	3.70	4.30	24		
25	2.55	1.60	2.72	2.54	6.72	1.40	3.57	3.88	2.41	2.42	2.47	3.28	25		
26	1.92	1.82	5.65	2.72	.10	2.55	5.40	2.94	2.55	2.36	3.44	3.28	26		
27	1.71	1.71	5.74	2.78	5.95	1.76	3.22	4.49	1.92	2.96	3.28	3.20	27		
28	1.71	1.71	5.83	2.78	7.46	2.78	2.90	2.84	1.50	2.35	2.35	2.55	28		
29	1.82		5.38	2.48	7.25	6.10	2.92	3.58	0.87	2.42	1.76	1.50	29		
30	1.56		5.47	2.12	9.54	5.38	3.28	(10.50)	1.40	2.47	0.87	1.18	30		
31	1.45		5.12		5.27		1.92	7.95		3.62		1.50	31		
Sum	98.27	60.78	88.15	99.07	212.85	73.93	174.45	127.29	90.53	80.63	107.88	61.43			
Ave.	3.17	2.17	2.84	3.30	6.87	2.46	5.63	4.11	3.02	2.60	3.60	1.98			
Annual Total												1,275.26			

Note: Figures from 1 May to 31 May were estimated by a hydraulic analysis.

443 100 x 1 x 30

III - 3. RUN-OFF DURATION TABLES

	<u>Gauging Station</u>	<u>Catchment Area (km²)</u>	<u>Recording Period</u>
(1)	Julumito	939.0	Jan. 1962 -- Dec. 1971
(2)	Malvasa	35.0	Jan. 1962 -- Dec. 1971

Table		Daily Flow Duration				STATION		Fulmito		CATCHMENT AREA		939		YEAR 1962		Km ² UNIT		m ³ /sec.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	194.7	31	40.6	61	30.3	91	25.8	121	22.8	151	21.1	181	19.8	211	19.2	241	18.6	271	18.1
2	158.8	32	40.4	62	30.2	92	25.8	122	22.6	152	20.9	182	19.8	212	19.2	242	18.6	272	18.1
3	154.3	33	40.0	63	30.1	93	25.6	123	22.5	153	20.8	183	19.8	213	19.1	243	18.6	273	18.0
4	148.4	34	40.0	64	30.1	94	25.6	124	22.5	154	20.8	184	19.8	214	19.1	244	18.5	274	18.0
5	140.6	35	39.7	65	30.0	95	25.3	125	22.5	155	20.7	185	19.8	215	19.1	245	18.5	275	18.0
6	132.8	36	39.5	66	29.9	96	25.3	126	22.3	156	20.7	186	19.8	216	19.1	246	18.5	276	18.0
7	124.3	37	38.4	67	29.9	97	25.2	127	22.2	157	20.6	187	19.8	217	19.1	247	18.5	277	18.0
8	119.8	38	37.2	68	29.7	98	25.2	128	22.2	158	20.6	188	19.7	218	19.1	248	18.5	278	18.0
9	117.4	39	37.0	69	29.3	99	25.2	129	22.2	159	20.6	189	19.7	219	19.1	249	18.4	279	18.0
10	96.4	40	36.5	70	28.9	100	25.0	130	22.1	160	20.5	190	19.7	220	19.1	250	18.4	280	18.0
11	87.7	41	36.4	71	28.9	101	25.0	131	22.0	161	20.4	191	19.7	221	19.1	251	18.4	281	18.0
12	74.4	42	35.8	72	28.6	102	24.5	132	22.0	162	20.3	192	19.6	222	19.1	252	18.4	282	18.0
13	69.2	43	35.2	73	28.5	103	24.4	133	21.9	163	20.3	193	19.6	223	19.0	253	18.4	283	18.0
14	67.1	44	35.0	74	28.2	104	24.4	134	21.8	164	20.3	194	19.6	224	19.0	254	18.4	284	18.0
15	62.2	45	34.8	75	28.2	105	24.3	135	21.7	165	20.2	195	19.6	225	19.0	255	18.4	285	18.0
16	60.7	46	33.9	76	28.2	106	24.1	136	21.7	166	20.1	196	19.5	226	19.0	256	18.4	286	18.0
17	60.6	47	33.8	77	28.0	107	24.1	137	21.7	167	20.1	197	19.5	227	19.0	257	18.3	287	17.7
18	57.7	48	33.7	78	27.9	108	24.0	138	21.6	168	20.0	198	19.4	228	18.9	258	18.3	288	17.7
19	55.8	49	33.5	79	27.9	109	23.9	139	21.6	169	20.0	199	19.4	229	18.9	259	18.3	289	17.6
20	53.4	50	33.2	80	27.8	110	23.8	140	21.6	170	20.0	200	19.4	230	18.9	260	18.3	290	17.6
21	50.0	51	33.2	81	27.8	111	23.8	141	21.6	171	20.0	201	19.4	231	18.9	261	18.2	291	17.6
22	48.2	52	33.2	82	27.3	112	23.7	142	21.5	172	20.0	202	19.4	232	18.9	262	18.2	292	17.6
23	48.2	53	32.7	83	27.1	113	23.6	143	21.4	173	20.0	203	19.3	233	18.8	263	18.2	293	17.5
24	45.4	54	32.1	84	26.9	114	23.6	144	21.4	174	20.0	204	19.2	234	18.8	264	18.2	294	17.5
25	44.8	55	31.8	85	26.7	115	23.4	145	21.4	175	19.9	205	19.2	235	18.8	265	18.2	295	17.5
26	44.6	56	31.7	86	26.1	116	23.3	146	21.4	176	19.9	206	19.2	236	18.8	266	18.2	296	17.5
27	44.6	57	31.2	87	25.9	117	23.3	147	21.2	177	19.9	207	19.2	237	18.7	267	18.2	297	17.4
28	41.4	58	31.0	88	25.9	118	23.3	148	21.2	178	19.9	208	19.2	238	18.7	268	18.1	298	17.4
29	41.4	59	30.9	89	25.9	119	23.2	149	21.2	179	19.9	209	19.2	239	18.6	269	18.1	299	17.3
30	40.7	60	30.4	90	25.9	120	23.1	150	21.2	180	19.8	210	19.2	240	18.6	270	18.1	300	17.2
		Flow Duration				Max.		35 days		95 days		185 days		275 days		355 days		Min.	
		Run-off				194.7		39.7		25.3		19.8		18.0		14.2		12.8	

		YEAR 1964																							
Table		Daily Flow Duration										STATION Jutumito		CATCHMENT AREA 939 Km ²		UNIT m ³ /sec.									
1	75.3	31	41.4	61	32.0	91	27.1	121	23.1	151	20.8	181	19.4	211	18.2	241	16.9	271	15.5	301	14.0	331	13.1	361	12.8
2	71.2	32	40.3	62	31.9	92	27.1	122	23.0	152	20.8	182	19.4	212	18.1	242	16.9	272	15.5	302	14.0	332	13.1	362	12.8
3	68.7	33	40.3	63	31.7	93	27.0	123	23.0	153	20.8	183	19.4	213	18.0	243	16.9	273	15.4	303	14.0	333	13.1	363	12.8
4	63.7	34	40.3	64	31.6	94	26.6	124	22.9	154	20.7	184	19.1	214	18.0	244	16.8	274	15.4	304	13.9	334	13.1	364	12.8
5	60.8	35	40.2	65	31.6	95	26.5	125	22.9	155	20.7	185	19.1	215	18.0	245	16.8	275	15.4	305	13.9	335	13.1	365	12.8
6	60.7	36	38.9	66	30.9	96	26.1	126	22.7	156	20.7	186	19.1	216	18.0	246	16.8	276	15.4	306	13.7	336	13.1	366	12.3
7	57.9	37	38.8	67	30.9	97	26.1	127	22.6	157	20.6	187	19.0	217	18.9	247	16.8	277	15.3	307	13.7	337	13.1		
8	55.4	38	38.4	68	30.9	98	26.1	128	22.5	158	20.5	188	18.9	218	17.9	248	16.8	278	15.3	308	13.7	338	13.1		
9	53.8	39	37.6	69	30.8	99	26.0	129	22.5	159	20.3	189	18.9	219	17.9	249	16.7	279	15.3	309	13.6	339	13.1		
10	53.1	40	37.5	70	30.8	100	25.8	130	22.4	160	20.3	190	18.9	220	17.9	250	16.7	280	15.2	310	13.5	340	13.1		
11	52.7	41	37.5	71	30.5	101	25.7	131	22.3	161	20.2	191	18.9	221	17.8	251	16.7	281	15.2	311	13.5	341	13.1		
12	51.3	42	36.9	72	30.5	102	25.7	132	22.2	162	20.2	192	18.9	222	17.8	252	16.6	282	15.2	312	13.5	342	13.1		
13	51.3	43	36.1	73	30.4	103	25.5	133	22.1	163	20.1	193	18.9	223	17.8	253	16.6	283	15.2	313	13.5	343	13.1		
14	50.8	44	36.0	74	30.4	104	25.1	134	22.0	164	20.1	194	18.9	224	17.7	254	16.5	284	15.1	314	13.5	344	13.1		
15	50.5	45	35.7	75	30.2	105	25.1	135	22.0	165	20.0	195	18.8	225	17.7	255	16.4	285	15.0	315	13.5	345	12.9		
16	49.2	46	35.7	76	30.1	106	25.0	136	21.8	166	20.0	196	18.7	226	17.7	256	16.4	286	15.0	316	13.5	346	12.8		
17	49.0	47	35.6	77	29.9	107	24.8	137	21.8	167	20.0	197	18.6	227	17.7	257	16.4	287	15.0	317	13.5	347	12.8		
18	48.0	48	35.3	78	29.8	108	24.5	138	21.8	168	19.9	198	18.5	228	17.6	258	16.3	288	15.0	318	13.5	348	12.8		
19	47.6	49	35.0	79	29.8	109	24.5	139	21.8	169	19.8	199	18.5	229	17.5	259	16.2	289	14.5	319	13.5	349	12.8		
20	47.5	50	34.4	80	29.4	110	24.5	140	21.6	170	19.7	200	18.4	230	17.4	260	16.2	290	14.5	320	13.5	350	12.8		
21	47.3	51	33.8	81	29.1	111	24.4	141	21.6	171	19.6	201	18.4	231	17.4	261	16.1	291	14.5	321	13.3	351	12.8		
22	46.9	52	33.8	82	28.9	112	24.2	142	21.6	172	19.6	202	18.3	232	17.4	262	16.1	292	14.5	322	13.3	352	12.8		
23	46.1	53	33.5	83	28.7	113	24.2	143	21.6	173	19.6	203	18.3	233	17.4	263	16.0	293	14.5	323	13.3	353	12.8		
24	46.1	54	33.5	84	28.6	114	24.1	144	21.6	174	19.5	204	18.2	234	17.3	264	15.9	294	14.5	324	13.3	354	12.8		
25	45.9	55	33.4	85	28.5	115	24.1	145	21.6	175	19.5	205	18.2	235	17.2	265	15.9	295	14.5	325	13.3	355	12.8		
26	45.0	56	33.1	86	28.4	116	23.9	146	21.4	176	19.5	206	18.2	236	17.1	266	15.8	296	14.3	326	13.3	356	12.8		
27	44.7	57	32.9	87	28.3	117	23.9	147	21.1	177	19.5	207	18.2	237	17.1	267	15.8	297	14.2	327	13.3	357	12.8		
28	43.9	58	32.7	88	28.0	118	23.9	148	21.0	178	19.4	208	18.2	238	17.1	268	15.7	298	14.2	328	13.1	358	12.8		
29	43.2	59	32.1	89	27.9	119	23.9	149	21.0	179	19.4	209	18.2	239	17.0	269	15.7	299	14.1	329	13.1	359	12.8		
30	42.9	60	32.0	90	27.7	120	23.5	150	20.8	180	19.4	210	18.2	240	17.0	270	15.6	300	14.0	330	13.1	360	12.8		
Flow Duration		Max.		35 days		95 days		185 days		275 days		355 days		Min.		Mean									
Run-off		75.3		40.2		26.5		19.1		15.4		12.8		12.3		23.1									

YEAR 1965																									
Table	Daily Flow Duration										STATION		Jutumito	CATCHMENT AREA		939	Km ²	UNIT	m ³ /sec.						
1	76.8	31	47.3	61	40.2	91	31.9	131	27.1	151	24.1	181	21.8	211	19.8	241	18.6	271	17.1	301	15.9	331	14.0	361	12.2
2	73.9	32	46.8	62	40.1	92	31.8	132	27.0	152	24.1	182	21.6	212	19.8	242	18.5	272	17.0	302	15.9	332	14.0	362	12.2
3	64.3	33	46.7	63	38.8	93	31.5	133	26.9	153	23.7	183	21.6	213	19.6	243	18.4	273	16.9	303	15.9	333	13.9	363	11.8
4	64.2	34	46.7	64	38.5	94	31.5	134	26.7	154	23.7	184	21.5	214	19.6	244	18.4	274	16.9	304	15.9	334	13.8	364	11.6
5	64.1	35	45.9	65	38.3	95	31.2	135	26.6	155	23.7	185	21.3	215	19.5	245	18.4	275	16.8	305	15.8	335	13.7	365	11.4
6	64.0	36	45.7	66	38.2	96	31.1	136	26.4	156	23.6	186	21.3	216	19.5	246	18.3	276	16.7	306	15.7	336	13.7		
7	62.1	37	45.7	67	38.2	97	31.1	137	26.1	157	23.5	187	21.0	217	19.5	247	18.3	277	16.7	307	15.4	337	13.7		
8	60.4	38	45.6	68	37.8	98	30.5	138	26.1	158	23.5	188	20.9	218	19.5	248	18.3	278	16.7	308	15.4	338	13.7		
9	59.4	39	45.3	69	37.8	99	30.4	139	26.1	159	23.4	189	20.9	219	19.4	249	18.1	279	16.6	309	15.3	339	13.6		
10	58.8	40	45.3	70	37.6	100	30.0	140	26.1	160	23.3	190	20.8	220	19.4	250	18.1	280	16.6	310	15.3	340	13.6		
11	57.9	41	45.1	71	37.5	101	29.7	141	26.0	161	23.3	191	20.8	221	19.3	251	18.0	281	16.5	311	15.1	341	13.3		
12	57.7	42	44.8	72	37.0	102	29.7	142	25.9	162	23.2	192	20.7	222	19.3	252	17.7	282	16.5	312	15.1	342	13.3		
13	55.9	43	44.5	73	36.8	103	29.3	143	25.9	163	23.1	193	20.7	223	19.2	253	17.7	283	16.5	313	15.0	343	13.3		
14	54.3	44	44.3	74	36.3	104	29.3	144	25.8	164	23.1	194	20.7	224	19.1	254	17.7	284	16.5	314	14.9	344	13.3		
15	53.8	45	44.0	75	35.9	105	29.3	145	25.6	165	23.1	195	20.6	225	19.1	255	17.7	285	16.5	315	14.9	345	13.2		
16	52.8	46	43.9	76	35.7	106	29.2	146	25.6	166	23.0	196	20.6	226	19.0	256	17.6	286	16.5	316	14.8	346	13.1		
17	52.2	47	43.7	77	35.7	107	29.0	147	25.4	167	23.0	197	20.5	227	19.0	257	17.6	287	16.4	317	14.8	347	13.0		
18	52.0	48	43.7	78	35.7	108	28.9	148	25.3	168	22.9	198	20.5	228	19.0	258	17.5	288	16.4	318	14.7	348	12.9		
19	51.8	49	43.6	79	35.6	109	28.7	149	25.3	169	22.9	199	20.4	229	18.9	259	17.5	289	16.3	319	14.6	349	12.8		
20	51.7	50	43.5	80	34.9	110	28.5	150	25.2	170	22.8	200	20.3	230	18.9	260	17.5	290	16.3	320	14.5	350	12.8		
21	50.4	51	43.2	81	34.7	111	28.2	151	25.2	171	22.6	201	20.3	231	18.9	261	17.4	291	16.3	321	14.5	351	12.8		
22	50.4	52	42.9	82	34.5	112	28.2	152	25.1	172	22.6	202	20.2	232	18.8	262	17.4	292	16.2	322	14.5	352	12.7		
23	49.2	53	42.5	83	34.2	113	28.1	153	24.8	173	22.6	203	20.2	233	18.8	263	17.4	293	16.1	323	14.4	353	12.7		
24	48.9	54	42.4	84	34.0	114	27.9	154	24.8	174	22.5	204	20.1	234	18.7	264	17.4	294	16.1	324	14.4	354	12.7		
25	48.9	55	42.2	85	33.5	115	27.8	155	24.7	175	22.3	205	20.1	235	18.7	265	17.4	295	16.1	325	14.4	355	12.6		
26	48.4	56	41.7	86	33.3	116	27.4	156	24.7	176	22.2	206	20.1	236	18.7	266	17.3	296	16.0	326	14.3	356	12.6		
27	48.3	57	41.4	87	33.2	117	27.5	157	24.7	177	22.2	207	20.1	237	18.7	267	17.3	297	16.0	327	14.3	357	12.5		
28	48.1	58	41.2	88	32.5	118	27.4	158	24.6	178	22.0	208	20.0	238	18.6	268	17.2	298	16.0	328	14.2	358	12.5		
29	48.1	59	41.0	89	32.3	119	27.3	159	24.5	179	21.9	209	19.9	239	18.6	269	17.1	299	16.0	329	14.1	359	12.5		
30	47.6	60	40.4	90	32.0	120	27.1	160	24.5	180	21.8	210	19.9	240	18.6	270	17.1	300	16.0	330	14.1	360	12.2		
Flow Duration		Max.		35 days		95 days		185 days		275 days		355 days		Min.		Mean									
Run-off		76.8		45.9		31.2		21.3		16.8		12.6		11.4		26.1									

Table		Daily Flow Duration		STATION		Julumito		CATCHMENT AREA		939		Km ²		UNIT		m ³ /sec.		YEAR 1966	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
94.0	31	36.0	61	28.0	91	23.9	121	22.2	151	20.5	181	19.1	211	18.2	241	17.3	271	16.4	301
84.9	32	35.0	62	27.7	92	23.7	122	22.2	152	20.4	182	18.9	212	18.2	242	17.3	272	16.4	302
83.4	33	35.0	63	27.6	93	23.7	123	22.2	153	20.3	183	18.9	213	18.1	243	17.2	273	16.4	303
78.6	34	34.6	64	27.3	94	23.7	124	22.0	154	20.2	184	18.9	214	17.9	244	17.2	274	16.3	304
76.3	35	33.6	65	27.2	95	23.6	125	22.0	155	20.1	185	18.9	215	17.9	245	17.2	275	16.3	305
74.7	36	33.6	66	26.9	96	23.6	126	21.9	156	20.1	186	18.9	216	17.9	246	17.2	276	16.3	306
67.5	37	33.5	67	26.5	97	23.6	127	21.9	157	20.0	187	18.8	217	17.8	247	17.2	277	16.2	307
61.7	38	33.2	68	26.5	98	23.6	128	21.9	158	20.0	188	18.8	218	17.8	248	17.2	278	16.2	308
60.0	39	33.2	69	26.3	99	23.4	129	21.9	159	20.0	189	18.8	219	17.8	249	17.1	279	16.1	309
58.7	40	33.2	70	25.8	100	23.4	130	21.9	160	20.0	190	18.7	220	17.7	250	17.0	280	16.1	310
57.0	41	32.7	71	25.7	101	23.3	131	21.8	161	20.0	191	18.7	221	17.6	251	17.0	281	16.0	311
56.3	42	32.6	72	25.7	102	23.3	132	21.7	162	19.9	192	18.7	222	17.6	252	16.9	282	16.0	312
55.6	43	32.6	73	25.3	103	23.3	133	21.7	163	19.9	193	18.6	223	17.6	253	16.9	283	15.9	313
54.5	44	31.8	74	25.2	104	23.3	134	21.7	164	19.8	194	18.6	224	17.6	254	16.9	284	15.9	314
53.6	45	31.0	75	25.2	105	23.2	135	21.6	165	19.8	195	18.6	225	17.6	255	16.9	285	15.9	315
52.7	46	30.3	76	25.0	106	23.2	136	21.6	166	19.7	196	18.6	226	17.5	256	16.9	286	15.9	316
51.1	47	29.9	77	25.0	107	23.2	137	21.4	167	19.7	197	18.5	227	17.5	257	16.9	287	15.9	317
50.1	48	29.8	78	24.8	108	23.2	138	21.4	168	19.7	198	18.5	228	17.5	258	16.9	288	15.8	318
50.0	49	29.5	79	24.7	109	23.1	139	21.4	169	19.6	199	18.4	229	17.5	259	16.8	289	15.7	319
46.2	50	29.5	80	24.7	110	23.1	140	21.3	170	19.6	200	18.4	230	17.5	260	16.8	290	15.7	320
45.4	51	29.1	81	24.6	111	23.0	141	21.2	171	19.6	201	18.4	231	17.5	261	16.8	291	15.7	321
44.8	52	29.0	82	24.5	112	22.9	142	21.2	172	19.5	202	18.3	232	17.4	262	16.7	292	15.7	322
44.2	53	29.0	83	24.5	113	22.8	143	21.2	173	19.5	203	18.3	233	17.4	263	16.7	293	15.7	323
44.2	54	29.0	84	24.5	114	22.7	144	21.0	174	19.5	204	18.3	234	17.4	264	16.7	294	15.6	324
44.1	55	29.0	85	24.5	115	22.7	145	20.8	175	19.4	205	18.3	235	17.4	265	16.6	295	15.6	325
40.3	56	28.8	86	24.4	116	22.6	146	20.7	176	19.4	206	18.2	236	17.4	266	16.6	296	15.6	326
39.5	57	28.8	87	24.3	117	22.4	147	20.7	177	19.3	207	18.2	237	17.4	267	16.5	297	15.5	327
37.7	58	28.4	88	24.3	118	22.4	148	20.7	178	19.2	208	18.2	238	17.3	268	16.5	298	15.5	328
36.6	59	28.3	89	24.2	119	22.4	149	20.7	179	19.2	209	18.2	239	17.3	269	16.5	299	15.5	329
36.5	60	28.2	90	24.2	120	22.4	150	20.6	180	19.2	210	18.2	240	17.3	270	16.5	300	15.5	330
Flow Duration		Max.		35 days		95 days		185 days		275 days		355 days		Min.		Mean			
Run-off		94.0		33.6		23.6		18.9		16.3		12.9		7.8		22.7			

Table		Daily Flow Duration		STATION		Julumito		CATCHMENT AREA		939		Km ²		UNIT		m ³ /sec.		YEAR 1967	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
141.5	31	48.2	61	34.1	91	28.5	121	25.3	151	23.2	181	21.3	211	19.5	241	18.7	271	18.2	301
107.5	32	47.9	62	33.9	92	28.3	122	25.2	152	23.1	182	21.2	212	19.4	242	18.7	272	18.2	302
101.6	33	47.4	63	33.9	93	28.3	123	25.1	153	23.0	183	21.1	213	19.4	243	18.7	273	18.2	303
100.4	34	45.8	64	33.5	94	28.2	124	25.0	154	22.9	184	20.9	214	19.4	244	18.6	274	18.2	304
97.4	35	45.4	65	33.5	95	28.2	125	24.9	155	22.9	185	20.8	215	19.3	245	18.5	275	18.2	305
90.5	36	45.3	66	33.5	96	28.2	126	24.7	156	22.8	186	20.8	216	19.2	246	18.5	276	18.1	306
88.6	37	44.9	67	33.5	97	27.9	127	24.6	157	22.8	187	20.7	217	19.2	247	18.5	277	18.1	307
82.3	38	44.9	68	32.9	98	27.6	128	24.6	158	22.8	188	20.7	218	19.2	248	18.5	278	18.1	308
79.8	39	44.9	69	32.5	99	27.2	129	24.5	159	22.6	189	20.6	219	19.2	249	18.5	279	18.1	309
77.7	40	44.1	70	32.3	100	27.1	130	24.5	160	22.6	190	20.5	220	19.1	250	18.5	280	18.1	310
74.4	41	44.1	71	32.0	101	26.9	131	24.5	161	22.6	191	20.4	221	19.1	251	18.5	281	18.1	311
72.1	42	40.7	72	31.9	102	26.8	132	24.2	162	22.4	192	20.3	222	19.0	252	18.4	282	18.1	312
71.9	43	40.0	73	31.8	103	26.7	133	24.2	163	22.3	193	20.3	223	19.0	253	18.4	283	18.1	313
70.1	44	40.0	74	31.6	104	26.7	134	24.2	164	22.2	194	20.3	224	19.0	254	18.4	284	18.1	314
68.7	45	40.0	75	31.5	105	26.7	135	24.2	165	22.1	195	20.3	225	18.9	255	18.4	285	18.1	315
64.8	46	40.0	76	31.5	106	26.6	136	24.2	166	22.0	196	20.2	226	18.9	256	18.4	286	18.1	316
61.5	47	38.2	77	30.7	107	26.6	137	24.1	167	22.0	197	20.2	227	18.9	257	18.4	287	18.0	317
61.0	48	38.2	78	30.6	108	26.5	138	24.0	168	22.0	198	20.2	228	18.9	258	18.3	288	18.0	318
58.5	49	38.2	79	30.4	109	26.3	139	23.9	169	21.9	199	19.9	229	18.9	259	18.3	289	18.0	319
57.0	50	37.9	80	30.4	110	26.2	140	23.9	170	21.8	200	19.9	230	18.9	260	18.3	290	18.0	320
55.8	51	36.1	81	30.2	111	26.0	141	23.9	171	21.8	201	19.9	231	18.9	261	18.3	291	18.0	321
54.9	52	35.9	82	30.0	112	25.9	142	23.7	172	21.7	202	19.8	232	18.9	262	18.3	292	18.0	322
53.3	53	35.3	83	29.0	113	25.9	143	23.6	173	21.7	203	19.7	233	18.9	263	18.3	293	18.0	323
53.4	54	35.3	84	29.9	114	25.9	144	23.4	174	21.7	204	19.6	234	18.8	264	18.3	294	18.0	324
52.8	55	35.2	85	29.9	115	25.9	145	23.4	175	21.7	205	19.6	235	18.8	265	18.3	295	18.0	325
52.1	56	34.8	86	29.4	116	25.8	146	23.3	176	21.7	206	19.6	236	18.8	266	18.3	296	18.0	326
51.5	57	34.8	87	29.2	117	25.4	147	23.3	177	21.6	207	19.6	237	18.8	267	18.2	297	18.0	327
51.5	58	34.7	88	28.9	118	25.4	148	23.3	178	21.5	208	19.5	238	18.7	268	18.2	298	18.0	328
50.7	59	34.8	89	28.9	119	25.3	149	23.2	179	21.4	209	19.5	239	18.7	269	18.2	299	18.0	329
49.2	60	34.2	90	28.6	120	25.3	150	23.2	180	21.4	210	19.5	240	18.7	270	18.2	300	17.9	330
Flow Duration		Max.		35 days		95 days		185 days		275 days		355 days		Min.		Mean			
Run-off		141.5		45.4		28.2		20.8		18.2		14.2		12.5		28.8			

YEAR 1968																																		
Table	Daily Flow Duration						STATION	Julumito	CATCHMENT AREA						939	Km ²	UNIT	m ³ /sec.																
1	81.3	31	45.4	61	31.3	91	25.7	121	22.9	151	20.8	181	18.8	17.2	161	16.0	14.9	14.0	13.0	11.1														
2	71.0	32	45.2	62	30.6	92	25.7	122	22.9	152	20.8	182	18.8	17.1	162	16.0	14.9	14.0	13.0	11.1														
3	70.0	33	45.1	63	30.6	93	25.7	123	22.6	153	20.6	183	18.8	17.1	163	16.0	14.9	14.0	12.9	11.1														
4	65.0	34	44.5	64	30.5	94	25.7	124	22.6	154	20.5	184	18.8	17.0	164	15.9	14.8	14.0	12.9	11.0														
5	62.1	35	44.4	65	30.3	95	25.6	125	22.5	155	20.4	185	18.6	16.9	165	15.9	14.8	14.0	12.9	11.0														
6	61.8	36	43.9	66	30.2	96	25.1	126	22.5	156	20.4	186	18.6	16.9	166	15.7	14.8	13.9	12.8	10.4														
7	61.3	37	42.9	67	30.1	97	25.1	127	22.4	157	20.4	187	18.5	16.8	167	15.6	14.7	13.9	12.7															
8	61.2	38	42.2	68	29.6	98	25.0	128	22.4	158	20.3	188	18.4	16.8	168	15.5	14.7	13.8	12.8															
9	60.2	39	41.2	69	29.3	99	25.0	129	22.4	159	20.2	189	18.4	16.7	169	15.5	14.7	13.8	12.7															
10	60.1	40	40.6	70	28.7	100	24.8	130	22.1	160	20.1	190	18.4	16.7	170	15.4	14.7	13.7	12.7															
11	59.3	41	39.3	71	27.9	101	24.6	131	22.0	161	19.8	191	18.4	16.7	171	15.4	14.7	13.7	12.7															
12	59.2	42	39.0	72	27.9	102	24.6	132	22.0	162	19.8	192	18.4	16.7	172	15.4	14.6	13.7	12.6															
13	59.0	43	38.6	73	27.9	103	24.5	133	21.7	163	19.8	193	18.1	16.7	173	15.4	14.6	13.7	12.6															
14	58.0	44	38.5	74	27.9	104	24.5	134	21.4	164	19.8	194	18.0	16.6	174	15.3	14.6	13.7	12.4															
15	56.7	45	38.4	75	27.8	105	24.1	135	21.4	165	19.7	195	18.0	16.6	175	15.3	14.6	13.6	12.3															
16	54.7	46	37.4	76	27.8	106	24.1	136	21.4	166	19.7	196	18.0	16.6	176	15.3	14.6	13.6	12.1															
17	54.4	47	37.3	77	27.8	107	24.1	137	21.4	167	19.6	197	17.9	16.6	177	15.3	14.5	13.6	12.1															
18	54.0	48	36.5	78	27.3	108	24.0	138	21.4	168	19.6	198	17.9	16.6	178	15.2	14.5	13.6	12.1															
19	53.0	49	36.1	79	27.1	109	23.9	139	21.3	169	19.6	199	17.8	16.5	179	15.2	14.4	13.5	12.1															
20	52.2	50	35.2	80	27.1	110	23.8	140	21.3	170	19.4	200	17.7	16.5	180	15.2	14.4	13.4	12.0															
21	52.1	51	35.0	81	26.8	111	23.7	141	21.2	171	19.4	201	17.7	16.4	181	15.2	14.3	13.4	11.9															
22	52.0	52	34.8	82	26.8	112	23.7	142	21.2	172	19.4	202	17.7	16.4	182	15.2	14.3	13.4	11.9															
23	51.5	53	33.8	83	26.7	113	23.4	143	21.2	173	19.4	203	17.6	16.4	183	15.2	14.3	13.3	11.9															
24	49.3	54	33.8	84	26.6	114	23.4	144	21.2	174	19.4	204	17.6	16.4	184	15.2	14.3	13.3	11.9															
25	49.2	55	32.4	85	26.6	115	23.4	145	21.1	175	19.3	205	17.5	16.4	185	15.1	14.2	13.3	11.9															
26	48.8	56	32.3	86	26.4	116	23.2	146	20.9	176	19.1	206	17.5	16.4	186	15.1	14.2	13.3	11.9															
27	47.2	57	32.2	87	26.1	117	23.0	147	20.9	177	19.0	207	17.5	16.2	187	15.0	14.2	13.2	11.5															
28	47.2	58	31.9	88	26.0	118	23.0	148	20.8	178	18.9	208	17.5	16.2	188	15.0	14.2	13.2	11.5															
29	46.7	59	31.7	89	25.8	119	23.0	149	20.8	179	18.8	209	17.3	16.1	189	14.9	14.1	13.1	11.5															
30	45.9	60	31.3	90	25.7	120	23.0	150	20.8	180	18.8	210	17.2	16.1	190	14.9	14.0	13.1	11.1															
<table><tr><td>Flow Duration</td><td>Max.</td><td>35 days</td><td>95 days</td><td>185 days</td><td>275 days</td><td>355 days</td><td>Min.</td><td>Mean</td></tr><tr><td>Run-off</td><td>81.3</td><td>44.4</td><td>25.6</td><td>18.6</td><td>14.8</td><td>11.9</td><td>10.4</td><td>23.1</td></tr></table>																	Flow Duration	Max.	35 days	95 days	185 days	275 days	355 days	Min.	Mean	Run-off	81.3	44.4	25.6	18.6	14.8	11.9	10.4	23.1
Flow Duration	Max.	35 days	95 days	185 days	275 days	355 days	Min.	Mean																										
Run-off	81.3	44.4	25.6	18.6	14.8	11.9	10.4	23.1																										

YEAR 1969																																		
Table	Daily Flow Duration										STATION	Julumito	CATCHMENT AREA				939	Km ²	UNIT	m ³ /sec.														
1	148.2	31	42.4	61	37.8	91	33.5	121	29.9	181	26.8	24.5	22.5	20.8	18.6	17.9	14.4	10.6																
2	117.9	32	42.4	62	37.7	92	33.5	122	29.8	182	26.8	24.2	22.5	20.8	18.4	17.9	14.3	9.8																
3	108.6	33	42.4	63	37.5	93	33.2	123	29.8	183	26.6	24.2	22.5	20.8	18.4	17.9	14.3	9.8																
4	55.6	34	42.4	64	37.4	94	33.2	124	29.8	184	26.5	24.2	22.4	20.8	18.3	17.9	14.0	9.8																
5	54.4	35	42.4	65	37.4	95	33.1	125	29.6	185	26.5	24.2	22.3	20.6	18.3	17.9	14.0	9.4																
6	54.3	36	42.3	66	37.3	96	33.1	126	29.4	186	26.4	24.2	22.2	20.4	18.3	17.8	13.8																	
7	52.1	37	42.3	67	38.3	97	33.0	127	29.0	187	26.4	24.2	22.2	20.4	18.3	17.7	13.8																	
8	50.8	38	42.3	68	37.0	98	32.9	128	29.0	188	26.1	24.1	22.2	20.4	18.3	17.7	13.8																	
9	48.7	39	42.3	69	36.8	99	32.9	129	29.0	189	26.1	24.0	22.2	20.3	18.2	17.7	13.8																	
10	48.2	40	42.3	70	36.4	100	32.6	130	29.0	190	26.0	24.0	22.0	20.2	18.1	17.7	13.6																	
11	48.1	41	41.8	71	36.2	101	32.4	131	28.8	191	26.0	24.0	21.8	20.2	18.1	17.5	13.6																	
12	47.9	42	41.8	72	35.9	102	32.3	132	28.6	192	26.0	24.0	21.8	20.2	18.1	17.4	13.5																	
13	47.5	43	41.6	73	35.7	103	32.0	133	28.6	193	25.8	23.9	21.8	20.0	18.1	17.2	13.4																	
14	47.0	44	41.3	74	35.4	104	32.0	134	28.6	194	25.7	23.8	21.8	20.0	18.1	17.2	13.1																	
15	45.3	45	41.3	75	35.4	105	31.9	135	28.6	195	25.6	23.8	21.8	19.9	18.0	16.8	12.8																	
16	44.9	46	41.3	76	35.4	106	31.9	136	28.6	196	25.6	23.5	21.5	19.7	18.0	16.8	12.8																	
17	44.9	47	41.0	77	35.2	107	31.9	137	28.3	197	25.4	23.4	21.5	19.6	18.0	16.8	12.8																	
18	44.9	48	40.3	78	35.2	108	31.8	138	28.3	198	25.4	23.2	21.5	19.6	18.0	16.8	12.3																	
19	44.4	49	39.8	79	35.2	109	31.8	139	28.2	199	25.4	23.2	21.5	19.4	18.0	16.5	12.3																	
20	44.4	50	39.4	80	35.0	110	31.4	140	28.0	200	25.4	23.2	21.5	19.4	18.0	16.2	12.3																	
21	44.0	51	39.3	81	34.9	111	31.2	141	27.9	201	25.3	23.0	21.5	19.4	18.0	15.4	12.2																	
22	44.0	52	39.3	82	34.5	112	31.2	142	27.9	202	25.3	23.0	21.3	19.2	18.0	15.4	12.0																	
23	43.8	53	39.0	83	34.4	113	31.0	143	27.9	203	25.1	22.8	21.3	19.0	18.0	15.3	11.9																	
24	43.1	54	38.8	84	34.4	114	31.0	144	27.4	204	25.0	22.8	21.3	19.0	17.9	15.2	11.9																	
25	43.1	55	38.8	85	34.4	115	31.0	145	27.4	205	25.0	22.8	21.2	18.8	17.9	15.1	11.8																	
26	42.4	56	38.8	86	34.0	116	30.6	146	27.1	206	25.0	22.8	21.2	18.7	17.9	15.0	11.7																	
27	42.4	57	38.8	87	34.0	117	30.6	147	27.1	207	24.9	22.8	21.2	18.7	17.9	15.0	11.0																	
28	42.4	58	38.6	88	33.8	118	30.2	148	27.1	208	24.8	22.9	20.9	18.7	17.9	14.8	10.8																	
29	42.4	59	38.4	89	33.7	119	30.2	149	27.1	209	24.7	22.6	20.9	18.6	17.9	14.6	10.8																	
30	42.4	60	38.4	90	33.5	120	30.0	150	27.0	210	24.7	22.5	20.8	18.6	17.9	14.4	10.6																	
<table><tr><td>Flow Duration</td><td>Max.</td><td>35 days</td><td>95 days</td><td>185 days</td><td>275 days</td><td>355 days</td><td>Min.</td><td>Mean</td></tr><tr><td>Run-off</td><td>148.2</td><td>42.4</td><td>33.1</td><td>24.2</td><td>18.3</td><td>11.8</td><td>9.4</td><td>27.2</td></tr></table>																	Flow Duration	Max.	35 days	95 days	185 days	275 days	355 days	Min.	Mean	Run-off	148.2	42.4	33.1	24.2	18.3	11.8	9.4	27.2
Flow Duration	Max.	35 days	95 days	185 days	275 days	355 days	Min.	Mean																										
Run-off	148.2	42.4	33.1	24.2	18.3	11.8	9.4	27.2																										

Table		Daily Flow Duration		STATION Julumito		CATCHMENT AREA 939		YEAR 1970		Km ² UNIT m ³ /sec.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475</

																							YEAR 1962																										
Table	Daily Flow Duration						STATION Malvasa		CATCHMENT AREA		35	Km ²	UNIT	m ³ /sec.																																			
1	27.53	31	9.06	61	5.67	91	4.20	121	3.47	151	3.00	181	2.60	211	2.22	241	1.85	271	1.44	301	1.26	331	1.09	361	0.87																								
2	24.62	32	8.89	62	5.51	92	4.15	122	3.46	152	2.96	182	2.60	212	2.22	242	1.82	272	1.44	302	1.26	332	1.09	362	0.87																								
3	24.23	33	8.84	63	5.51	93	4.11	123	3.44	153	2.92	183	2.57	213	2.22	243	1.79	273	1.44	303	1.26	333	1.09	363	0.85																								
4	23.71	34	8.56	64	5.46	94	4.02	124	3.40	154	2.92	184	2.54	214	2.19	244	1.76	274	1.44	304	1.24	334	1.09	364	0.85																								
5	23.00	35	8.52	65	5.41	95	3.97	125	3.39	155	2.88	185	2.52	215	2.19	245	1.76	275	1.44	305	1.24	335	1.09	365	0.85																								
6	22.27	36	8.48	66	5.36	96	3.88	126	3.39	156	2.88	186	2.52	216	2.15	246	1.76	276	1.44	306	1.24	336	1.09																										
7	21.45	37	8.39	67	5.30	97	3.88	127	3.39	157	2.88	187	2.52	217	2.12	247	1.76	277	1.44	307	1.24	337	1.09																										
8	21.00	38	8.39	68	5.30	98	3.86	128	3.35	158	2.88	188	2.52	218	2.12	248	1.70	278	1.44	308	1.21	338	1.07																										
9	20.75	39	8.39	69	5.25	99	3.84	129	3.35	159	2.88	189	2.47	219	2.09	249	1.68	279	1.44	309	1.21	339	1.07																										
10	18.48	40	8.27	70	5.20	100	3.84	130	3.35	160	2.88	190	2.45	220	2.07	250	1.68	280	1.44	310	1.21	340	1.07																										
11	17.45	41	7.63	71	5.09	101	3.84	131	3.32	161	2.84	191	2.43	221	2.07	251	1.65	281	1.41	311	1.21	341	1.04																										
12	15.74	42	7.61	72	4.98	102	3.76	132	3.28	162	2.84	192	2.42	222	2.05	252	1.65	282	1.41	312	1.21	342	1.02																										
13	14.72	43	7.56	73	4.84	103	3.76	133	3.27	163	2.80	193	2.42	223	2.02	253	1.62	283	1.39	313	1.21	343	1.02																										
14	13.98	44	7.56	74	4.82	104	3.75	134	3.27	164	2.80	194	2.39	224	2.02	254	1.62	284	1.39	314	1.21	344	1.00																										
15	13.76	45	7.48	75	4.81	105	3.70	135	3.24	165	2.80	195	2.39	225	2.02	255	1.62	285	1.39	315	1.21	345	0.98																										
16	13.74	46	7.44	76	4.76	106	3.70	136	3.24	166	2.80	196	2.37	226	2.02	256	1.59	286	1.39	316	1.19	346	0.96																										
17	12.97	47	7.32	77	4.71	107	3.62	137	3.24	167	2.76	197	2.35	227	2.00	257	1.59	287	1.39	317	1.19	347	0.96																										
18	12.56	48	7.08	78	4.71	108	3.60	138	3.20	168	2.76	198	2.32	228	1.99	258	1.59	288	1.36	318	1.17	348	0.96																										
19	11.64	49	6.90	79	4.71	109	3.60	139	3.12	169	2.76	199	2.32	229	1.99	259	1.57	289	1.36	319	1.15	349	0.96																										
20	11.64	50	6.83	80	4.71	110	3.58	140	3.12	170	2.76	200	2.32	230	1.96	260	1.56	290	1.36	320	1.15	350	0.96																										
21	11.10	51	6.83	81	4.65	111	3.58	141	3.12	171	2.76	201	2.32	231	1.96	261	1.56	291	1.36	321	1.15	351	0.96																										
22	10.95	52	6.67	82	4.60	112	3.51	142	3.12	172	2.72	202	2.32	232	1.96	262	1.56	292	1.35	322	1.15	352	0.96																										
23	10.16	53	6.61	83	4.60	113	3.50	143	3.12	173	2.64	203	2.32	233	1.93	263	1.56	293	1.34	323	1.15	353	0.96																										
24	10.10	54	6.15	84	4.54	114	3.47	144	3.12	174	2.64	204	2.29	234	1.93	264	1.54	294	1.31	324	1.13	354	0.94																										
25	10.01	55	6.15	85	4.48	115	3.47	145	3.12	175	2.64	205	2.25	235	1.93	265	1.54	295	1.31	325	1.13	355	0.92																										
26	9.94	56	5.98	86	4.43	116	3.47	146	3.12	176	2.64	206	2.25	236	1.93	266	1.54	296	1.31	326	1.11	356	0.90																										
27	9.90	57	5.94	87	4.41	117	3.47	147	3.08	177	2.64	207	2.25	237	1.91	267	1.49	297	1.31	327	1.09	357	0.90																										
28	9.65	58	5.94	88	4.34	118	3.47	148	3.04	178	2.64	208	2.25	238	1.88	268	1.49	298	1.29	328	1.09	358	0.90																										
29	9.38	59	5.93	89	4.30	119	3.47	149	3.03	179	2.64	209	2.25	239	1.87	269	1.46	299	1.29	329	1.09	359	0.90																										
30	9.21	60	5.87	90	4.20	120	3.47	150	3.00	180	2.64	210	2.25	240	1.85	270	1.44	300	1.29	330	1.09	360	0.90																										
																							<table><tr><td>Flow Duration</td><td>Max.</td><td>35 days</td><td>95 days</td><td>185 days</td><td>275 days</td><td>355 days</td><td>Min.</td><td>Mean</td></tr><tr><td>Run-off</td><td>27.53</td><td>8.52</td><td>3.97</td><td>2.52</td><td>1.44</td><td>0.92</td><td>0.85</td><td>3.89</td></tr></table>									Flow Duration	Max.	35 days	95 days	185 days	275 days	355 days	Min.	Mean	Run-off	27.53	8.52	3.97	2.52	1.44	0.92	0.85	3.89
Flow Duration	Max.	35 days	95 days	185 days	275 days	355 days	Min.	Mean																																									
Run-off	27.53	8.52	3.97	2.52	1.44	0.92	0.85	3.89																																									

YEAR 1963																																																											
Table	Daily Flow Duration						STATION Malvasa		CATCHMENT AREA 35 Km ²						UNIT m ³ /sec.																																												
1	16.52	31	5.36	61	4.11	91	3.20	121	2.76	151	2.32	181	2.03	211	1.85	241	1.68	271	1.59	301	1.49	331	1.41	361	1.13																																		
2	14.54	32	5.30	62	4.11	92	3.20	122	2.76	152	2.32	182	2.03	212	1.85	242	1.68	272	1.57	302	1.49	332	1.39	362	1.02																																		
3	12.60	33	5.20	63	4.11	93	3.18	123	2.68	153	2.32	183	2.02	213	1.82	243	1.68	273	1.56	303	1.49	333	1.39	363	0.96																																		
4	11.88	34	5.04	64	4.10	94	3.16	124	2.68	154	2.29	184	2.02	214	1.82	244	1.68	274	1.56	304	1.49	334	1.39	364	0.96																																		
5	11.52	35	5.04	65	3.97	95	3.12	125	2.64	155	2.29	185	2.02	215	1.80	245	1.68	275	1.54	305	1.40	335	1.36	365	0.96																																		
6	11.19	36	5.03	66	3.93	96	3.12	126	2.64	156	2.25	186	2.02	216	1.79	246	1.66	276	1.54	306	1.40	336	1.36																																				
7	11.18	37	4.98	67	3.90	97	3.12	127	2.64	157	2.25	187	2.02	217	1.79	247	1.65	277	1.54	307	1.40	337	1.36																																				
8	10.95	38	4.98	68	3.84	98	3.11	128	2.64	158	2.24	188	2.02	218	1.76	248	1.65	278	1.54	308	1.40	338	1.36																																				
9	9.64	39	4.96	69	3.83	99	3.04	129	2.64	159	2.22	189	1.99	219	1.76	249	1.63	279	1.54	309	1.40	339	1.36																																				
10	9.46	40	4.96	70	3.77	100	3.04	130	2.64	160	2.22	190	1.99	220	1.76	250	1.63	280	1.54	310	1.40	340	1.36																																				
11	9.05	41	4.76	71	3.76	101	3.00	131	2.64	161	2.22	191	1.99	221	1.76	251	1.62	281	1.51	311	1.41	341	1.36																																				
12	8.94	42	4.65	72	3.72	102	3.00	132	2.60	162	2.22	192	1.96	222	1.76	252	1.62	282	1.51	312	1.44	342	1.36																																				
13	8.74	43	4.65	73	3.70	103	3.00	133	2.56	163	2.20	193	1.93	223	1.76	253	1.62	283	1.51	313	1.44	343	1.34																																				
14	8.56	44	4.65	74	3.70	104	2.88	134	2.52	164	2.16	194	1.93	224	1.76	254	1.62	284	1.51	314	1.44	344	1.32																																				
15	8.48	45	4.62	75	3.64	105	2.88	135	2.52	165	2.15	195	1.93	225	1.76	255	1.59	285	1.51	315	1.44	345	1.29																																				
16	8.08	46	4.60	76	3.58	106	2.88	136	2.82	166	2.13	196	1.93	226	1.76	256	1.59	286	1.51	316	1.44	346	1.29																																				
17	7.79	47	4.54	77	3.58	107	2.86	137	2.52	167	2.12	197	1.93	227	1.76	257	1.59	287	1.51	317	1.44	347	1.29																																				
18	7.75	48	4.54	78	3.58	108	2.88	138	2.50	168	2.12	198	1.93	228	1.76	258	1.59	288	1.51	318	1.44	348	1.29																																				
19	7.50	49	4.46	79	3.47	109	2.88	139	2.49	169	2.12	199	1.93	229	1.76	259	1.59	289	1.51	319	1.44	349	1.26																																				
20	7.31	50	4.39	80	3.47	110	2.88	140	2.45	170	2.12	200	1.91	230	1.73	260	1.59	290	1.51	320	1.44	350	1.24																																				
21	7.26	51	4.32	81	3.47	111	2.88	141	2.45	171	2.12	201	1.88	231	1.73	261	1.59	291	1.51	321	1.44	351	1.24																																				
22	6.50	52	4.24	82	3.47	112	2.88	142	2.42	172	2.10	202	1.88	232	1.72	262	1.59	292	1.51	322	1.44	352	1.24																																				
23	6.44	53	4.24	83	3.47	113	2.84	143	2.42	173	2.09	203	1.88	233	1.72	263	1.59	293	1.51	323	1.44	353	1.24																																				
24	6.34	54	4.24	84	3.39	114	2.84	144	2.42	174	2.09	204	1.85	234	1.72	264	1.59	294	1.51	324	1.44	354	1.21																																				
25	6.22	55	4.24	85	3.36	115	2.82	145	2.42	175	2.07	205	1.85	235	1.70	265	1.59	295	1.51	325	1.44	355	1.21																																				
26	5.83	56	4.20	86	3.35	116	2.82	146	2.42	176	2.06	206	1.85	236	1.70	266	1.59	296	1.51	326	1.44	356	1.21																																				
27	5.82	57	4.11	87	3.35	117	2.80	147	2.39	177	2.05	207	1.85	237	1.68	267	1.59	297	1.51	327	1.44	357	1.21																																				
28	5.68	58	4.11	88	3.29	118	2.80	148	2.36	178	2.05	208	1.85	238	1.68	268	1.59	298	1.51	328	1.44	358	1.21																																				
29	5.67	59	4.11	89	3.28	119	2.76	149	2.35	179	2.05	209	1.85	239	1.68	269	1.59	299	1.51	329	1.44	359	1.17																																				
30	5.67	60	4.11	90	3.24	120	2.76	150	2.35	180	2.05	210	1.85	240	1.68	270	1.59	300	1.49	330	1.41	360	1.17																																				
<table><tr><td colspan="2">Flow Duration</td><td colspan="2">Max.</td><td colspan="2">35 days</td><td colspan="2">95 days</td><td colspan="2">185 days</td><td colspan="2">275 days</td><td colspan="2">355 days</td><td colspan="2">Min.</td><td colspan="2">Mean</td></tr><tr><td colspan="2">Run-off</td><td colspan="2">16.52</td><td colspan="2">5.04</td><td colspan="2">3.12</td><td colspan="2">2.02</td><td colspan="2">1.54</td><td colspan="2">1.21</td><td colspan="2">0.96</td><td colspan="2">2.63</td></tr></table>																								Flow Duration		Max.		35 days		95 days		185 days		275 days		355 days		Min.		Mean		Run-off		16.52		5.04		3.12		2.02		1.54		1.21		0.96		2.63	
Flow Duration		Max.		35 days		95 days		185 days		275 days		355 days		Min.		Mean																																											
Run-off		16.52		5.04		3.12		2.02		1.54		1.21		0.96		2.63																																											

Table		Daily Flow Duration		STATION		Malvasa		CATCHMENT AREA		35		Km ²		UNIT		m ³ /sec.		YEAR 1964							
1	16.57	31	8.03	61	5.89	91	4.87	121	3.97	151	3.24	181	2.76	211	2.22	241	1.85	271	1.21	301	0.79	331	0.63	361	0.59
2	16.35	32	8.03	62	5.87	92	4.87	122	3.91	152	3.24	182	2.76	212	2.22	242	1.85	272	1.21	302	0.76	332	0.63	362	0.59
3	14.98	33	8.00	63	5.85	93	4.87	123	3.90	153	3.23	183	2.71	213	2.19	243	1.85	273	1.19	303	0.74	333	0.63	363	0.59
4	14.02	34	7.93	64	5.82	94	4.82	124	3.84	154	3.20	184	2.70	214	2.17	244	1.76	274	1.13	304	0.74	334	0.63	364	0.59
5	13.88	35	7.67	65	5.82	95	4.79	125	3.83	155	3.19	185	2.68	215	2.15	245	1.76	275	1.12	305	0.74	335	0.63	365	0.59
6	13.04	36	7.41	66	5.82	96	4.71	126	3.77	156	3.18	186	2.58	216	2.12	246	1.76	276	1.12	306	0.74	336	0.63	366	0.54
7	12.09	37	7.32	67	5.74	97	4.64	127	3.75	157	3.18	187	2.56	217	2.12	247	1.72	277	1.09	307	0.72	337	0.63		
8	11.98	38	7.32	68	5.74	98	4.62	128	3.75	158	3.18	188	2.52	218	2.12	248	1.70	278	1.09	308	0.70	338	0.63		
9	11.91	39	7.32	69	5.56	99	4.54	129	3.71	159	3.16	189	2.52	219	2.12	249	1.68	279	1.07	309	0.70	339	0.63		
10	11.87	40	7.20	70	5.51	100	4.54	130	3.66	160	3.15	190	2.47	220	2.12	250	1.67	280	0.98	310	0.70	340	0.63		
11	11.64	41	7.08	71	5.51	101	4.51	131	3.58	161	3.12	191	2.45	221	2.12	251	1.67	281	0.98	311	0.68	341	0.63		
12	11.29	42	7.08	72	5.51	102	4.47	132	3.58	162	3.12	192	2.45	222	2.12	252	1.67	282	0.98	312	0.68	342	0.63		
13	11.18	43	6.88	73	5.51	103	4.43	133	3.58	163	3.09	193	2.45	223	2.12	253	1.67	283	0.96	313	0.68	343	0.63		
14	11.07	44	6.83	74	5.51	104	4.38	134	3.58	164	3.08	194	2.42	224	2.12	254	1.64	284	0.96	314	0.68	344	0.63		
15	10.71	45	6.73	75	5.46	105	4.38	135	3.58	165	3.08	195	2.42	225	2.12	255	1.63	285	0.94	315	0.68	345	0.63		
16	10.26	46	6.67	76	5.42	106	4.38	136	3.56	166	3.06	196	2.39	226	2.12	256	1.51	286	0.93	316	0.68	346	0.60		
17	10.24	47	6.67	77	5.36	107	4.38	137	3.51	167	3.06	197	2.39	227	2.12	257	1.44	287	0.90	317	0.68	347	0.60		
18	10.03	48	6.67	78	5.36	108	4.31	138	3.47	168	3.04	198	2.37	228	2.12	258	1.36	288	0.90	318	0.68	348	0.59		
19	9.94	49	6.65	79	5.20	109	4.24	139	3.47	169	2.96	199	2.32	229	2.07	259	1.36	289	0.90	319	0.68	349	0.59		
20	9.91	50	6.61	80	5.15	110	4.24	140	3.47	170	2.94	200	2.32	230	2.03	260	1.34	290	0.87	320	0.68	350	0.59		
21	9.64	51	6.56	81	5.15	111	4.15	141	3.47	171	2.94	201	2.29	231	2.02	261	1.34	291	0.87	321	0.68	351	0.59		
22	9.62	52	6.50	82	5.09	112	4.11	142	3.46	172	2.88	202	2.29	232	1.97	262	1.29	292	0.85	322	0.66	352	0.59		
23	9.46	53	6.50	83	5.04	113	4.11	143	3.46	173	2.88	203	2.25	233	1.93	263	1.29	293	0.85	323	0.66	353	0.59		
24	8.35	54	6.32	84	5.04	114	4.11	144	3.39	174	2.88	204	2.22	234	1.93	264	1.29	294	0.85	324	0.66	354	0.59		
25	8.74	55	6.30	85	4.93	115	4.11	145	3.35	175	2.84	205	2.22	235	1.93	265	1.29	295	0.85	325	0.65	355	0.59		
26	8.74	56	6.23	86	4.89	116	4.06	146	3.35	176	2.82	206	2.22	236	1.93	266	1.29	296	0.79	326	0.65	356	0.59		
27	8.62	57	6.21	87	4.87	117	4.04	147	3.35	177	2.76	207	2.22	237	1.89	267	1.29	297	0.79	327	0.65	357	0.59		
28	8.39	58	5.98	88	4.87	118	3.98	148	3.35	178	2.76	208	2.22	238	1.88	268	1.29	298	0.79	328	0.65	358	0.59		
29	8.21	59	5.98	89	4.87	119	3.97	149	3.35	179	2.76	209	2.22	239	1.88	269	1.26	299	0.79	329	0.63	359	0.59		
30	8.15	60	5.91	90	4.87	120	3.97	150	3.35	180	2.76	210	2.22	240	1.85	270	1.21	300	0.79	330	0.63	360	0.59		
Flow Duration		Max.		35 days		95 days		185 days		275 days		355 days		Mtn.		Mean									
Run-off		16.57		7.67		4.79		2.68		1.12		0.59		0.54		3.50									

Table		Daily Flow Duration		STATION Malvasa		CATCHMENT AREA 35		Km ² UNIT		m ³ /sec.		YEAR 1965													
1	28.26	31	9.36	61	6.66	91	5.15	121	4.20	151	3.47	181	3.00	211	2.72	241	2.22	271	1.85	301	1.44	331	1.15	361	0.92
2	28.10	32	9.13	62	6.61	92	5.14	122	4.15	152	3.47	182	3.00	212	2.70	242	2.17	272	1.85	302	1.44	332	1.15	362	0.90
3	21.68	33	9.09	63	6.61	93	5.04	123	4.06	153	3.47	183	3.00	213	2.68	243	2.17	273	1.85	303	1.44	333	1.15	363	0.90
4	19.27	34	9.09	64	6.50	94	5.03	124	4.02	154	3.47	184	3.00	214	2.65	244	2.17	274	1.85	304	1.44	334	1.13	364	0.90
5	16.26	35	8.93	65	6.32	95	4.87	125	4.02	155	3.47	185	3.00	215	2.64	245	2.15	275	1.85	305	1.44	335	1.12	365	0.85
6	15.70	36	8.85	66	6.25	96	4.87	126	3.97	156	3.47	186	3.00	216	2.64	246	2.15	276	1.85	306	1.44	336	1.09		
7	14.03	37	8.62	67	6.15	97	4.79	127	3.97	157	3.47	187	2.94	217	2.64	247	2.15	277	1.80	307	1.44	337	1.09		
8	13.87	38	8.62	68	6.09	98	4.76	128	3.97	158	3.47	188	2.92	218	2.59	248	2.15	278	1.80	308	1.44	338	1.09		
9	13.53	39	8.45	69	6.06	99	4.71	129	3.97	159	3.47	189	2.88	219	2.56	249	2.12	279	1.76	309	1.44	339	1.09		
10	13.38	40	8.39	70	5.95	100	4.71	130	3.97	160	3.46	190	2.88	220	2.52	250	2.12	280	1.76	310	1.40	340	1.09		
11	13.29	41	8.39	71	5.92	101	4.71	131	3.88	161	3.43	191	2.88	221	2.52	251	2.12	281	1.76	311	1.36	341	1.09		
12	13.05	42	8.37	72	5.72	102	4.68	132	3.84	162	3.43	192	2.88	222	2.49	252	2.09	282	1.76	312	1.36	342	1.09		
13	12.88	43	8.22	73	5.67	103	4.65	133	3.84	163	3.43	193	2.88	223	2.45	253	2.03	283	1.76	313	1.31	343	1.09		
14	12.45	44	8.15	74	5.67	104	4.54	134	3.84	164	3.39	194	2.88	224	2.45	254	2.02	284	1.76	314	1.29	344	1.09		
15	12.32	45	8.01	75	5.67	105	4.54	135	3.84	165	3.39	195	2.88	225	2.43	255	2.02	285	1.72	315	1.29	345	1.09		
16	11.98	46	7.79	76	5.63	106	4.54	136	3.84	166	3.36	196	2.88	226	2.42	256	2.02	286	1.71	316	1.29	346	1.08		
17	11.64	47	7.79	77	5.57	107	4.49	137	3.84	167	3.31	197	2.88	227	2.42	257	2.02	287	1.68	317	1.29	347	1.02		
18	11.38	48	7.59	78	5.52	108	4.49	138	3.84	168	3.29	198	2.88	228	2.42	258	2.02	288	1.65	318	1.29	348	1.02		
19	11.29	49	7.55	79	5.51	109	4.38	139	3.84	169	3.28	199	2.88	229	2.42	259	1.98	289	1.63	319	1.29	349	1.02		
20	11.06	50	7.48	80	5.46	110	4.38	140	3.75	170	3.28	200	2.88	230	2.35	260	1.96	290	1.62	320	1.29	350	1.02		
21	10.95	51	7.47	81	5.45	111	4.38	141	3.72	171	3.24	201	2.84	231	2.35	261	1.96	291	1.59	321	1.25	351	1.02		
22	10.79	52	7.34	82	5.41	112	4.38	142	3.70	172	3.24	202	2.82	232	2.32	262	1.93	292	1.59	322	1.21	352	1.02		
23	10.18	53	7.24	83	5.36	113	4.31	143	3.70	173	3.23	203	2.82	233	2.32	263	1.93	293	1.59	323	1.21	353	1.02		
24	10.03	54	7.00	84	5.35	114	4.29	144	3.70	174	3.16	204	2.76	234	2.32	264	1.93	294	1.59	324	1.21	354	1.02		
25	10.01	55	6.92	85	5.35	115	4.25	145	3.70	175	3.12	205	2.76	235	2.27	265	1.93	295	1.55	325	1.18	355	0.96		
26	9.91	56	6.79	86	5.27	116	4.24	146	3.70	176	3.12	206	2.76	236	2.27	266	1.93	296	1.52	326	1.17	356	0.96		
27	9.78	57	6.75	87	5.25	117	4.24	147	3.62	177	3.12	207	2.76	237	2.27	267	1.93	297	1.51	327	1.17	357	0.96		
28	9.68	58	6.75	88	5.24	118	4.24	148	3.59	178	3.12	208	2.76	238	2.25	268	1.91	298	1.46	328	1.17	358	0.96		
29	9.67	59	6.69	89	5.24	119	4.24	149	3.58	179	3.12	209	2.76	239	2.22	269	1.88	299	1.44	329	1.15	359	0.96		
30	9.42	60	6.67	90	5.16	120	4.22	150	3.52	180	3.00	210	2.76	240	2.22	270	1.85	300	1.44	330	1.15	360	0.93		
Flow Duration		Max.		35 days		95 days		185 days		275 days		355 days		Min.		Mean									
Run-off		28.26		8.93		4.87		3.00		1.85		0.96		0.85		4.15									

Table		Daily Flow Duration		STATION		Malvasa		CATCHMENT AREA		35		YEAR 1966		Km ² UNIT		m ³ /sec.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
36.22	31	8.92	61	5.20	91	4.04	121	3.30	151	2.47	181	1.93	211	1.55	241	1.34	271
32.72	32	8.81	62	5.12	92	3.97	122	3.23	152	2.45	182	1.93	212	1.55	242	1.33	272
32.14	33	8.57	63	5.12	93	3.97	123	3.20	153	2.42	183	1.82	213	1.55	243	1.32	273
30.28	34	8.47	64	4.98	94	3.97	124	3.19	154	2.42	184	1.82	214	1.54	244	1.31	274
29.40	35	8.41	65	4.88	95	3.91	125	3.12	155	2.42	185	1.80	215	1.54	245	1.31	275
28.80	36	8.39	66	4.87	96	3.88	126	3.12	156	2.42	186	1.79	216	1.51	246	1.31	276
26.01	37	8.03	67	4.79	97	3.84	127	3.12	157	2.35	187	1.76	217	1.51	247	1.29	277
23.78	38	8.03	68	4.76	98	3.84	128	3.12	158	2.32	188	1.76	218	1.49	248	1.29	278
21.68	39	7.79	69	4.71	99	3.75	129	3.08	159	2.32	189	1.76	219	1.49	249	1.29	279
21.43	40	7.47	70	4.65	100	3.70	130	3.06	160	2.27	190	1.76	220	1.48	250	1.29	280
20.98	41	7.00	71	4.65	101	3.70	131	3.00	161	2.25	191	1.73	221	1.46	251	1.26	281
20.64	42	6.84	72	4.53	102	3.70	132	3.00	162	2.22	192	1.73	222	1.44	252	1.26	282
17.04	43	6.73	73	4.41	103	3.70	133	3.00	163	2.17	193	1.71	223	1.44	253	1.26	283
17.00	44	6.69	74	4.36	104	3.66	134	3.00	164	2.12	194	1.68	224	1.44	254	1.26	284
13.53	45	6.16	75	4.38	105	3.62	135	3.00	165	2.09	195	1.68	225	1.44	255	1.24	285
12.93	46	5.98	76	4.38	106	3.62	136	2.96	166	2.06	196	1.68	226	1.44	256	1.22	286
12.92	47	5.98	77	4.38	107	3.58	137	2.96	167	2.05	197	1.67	227	1.44	257	1.21	287
12.56	48	5.98	78	4.31	108	3.58	138	2.94	168	2.02	198	1.65	228	1.44	258	1.21	288
12.48	49	5.94	79	4.24	109	3.52	139	2.92	169	2.02	199	1.65	229	1.41	259	1.21	289
11.94	50	5.82	80	4.24	110	3.52	140	2.92	170	2.02	200	1.65	230	1.41	260	1.21	290
11.64	51	5.74	81	4.21	111	3.51	141	2.82	171	2.02	201	1.64	231	1.40	261	1.21	291
11.19	52	5.67	82	4.20	112	3.47	142	2.82	172	2.02	202	1.63	232	1.39	262	1.17	292
11.19	53	5.67	83	4.20	113	3.47	143	2.80	173	2.02	203	1.60	233	1.38	263	1.17	293
11.19	54	5.56	84	4.20	114	3.47	144	2.72	174	2.02	204	1.59	234	1.36	264	1.17	294
11.09	55	5.36	85	4.20	115	3.41	145	2.63	175	2.02	205	1.59	235	1.36	265	1.16	295
10.79	56	5.34	86	4.18	116	3.39	146	2.62	176	1.99	206	1.59	236	1.36	266	1.15	296
10.59	57	5.25	87	4.15	117	3.35	147	2.56	177	1.98	207	1.59	237	1.36	267	1.15	297
10.00	58	5.20	88	4.06	118	3.35	148	2.52	178	1.94	208	1.59	238	1.36	268	1.15	298
9.25	59	5.20	89	4.06	119	3.35	149	2.49	179	1.93	209	1.59	239	1.34	269	1.15	299
9.24	60	5.20	90	4.04	120	3.35	150	2.48	180	1.93	210	1.56	240	1.34	270	1.15	300
Flow Duration		Max.		35 days		95 days		185 days		275 days		355 days		Min.		Mean	
Run-off		36.22		8.41		3.91		1.80		1.12		0.79		0.62		3.72	

Table		Daily Flow Duration		STATION		Malvasa		CATCHMENT AREA		35		YEAR 1967		Km ² UNIT		m ³ /sec.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
28.60	31	11.19	61	6.45	91	4.24	121	3.00	151	2.60	181	2.35	211	2.02	241	1.85	271
28.08	32	11.11	62	6.42	92	4.11	122	2.96	152	2.60	182	2.32	212	2.02	242	1.85	272
27.13	33	10.51	63	6.42	93	4.02	123	2.92	153	2.58	183	2.32	213	2.02	243	1.85	273
21.33	34	10.01	64	6.41	94	3.97	124	2.88	154	2.57	184	2.32	214	2.00	244	1.85	274
21.21	35	10.00	65	6.38	95	3.97	125	2.88	155	2.56	185	2.32	215	1.99	245	1.85	275
19.71	36	10.00	66	6.33	96	3.85	126	2.88	156	2.56	186	2.29	216	1.97	246	1.85	276
19.07	37	10.00	67	6.27	97	3.84	127	2.84	157	2.52	187	2.29	217	1.97	247	1.85	277
18.93	38	9.35	68	6.06	98	3.84	128	2.84	158	2.52	188	2.25	218	1.96	248	1.82	278
18.82	39	9.34	69	5.98	99	3.80	129	2.82	159	2.52	189	2.25	219	1.96	249	1.82	279
18.59	40	9.06	70	5.98	100	3.77	130	2.80	160	2.52	190	2.22	220	1.94	250	1.82	280
18.47	41	8.92	71	5.88	101	3.77	131	2.80	161	2.52	191	2.22	221	1.93	251	1.82	281
17.79	42	8.92	72	5.77	102	3.75	132	2.80	162	2.49	192	2.22	222	1.93	252	1.82	282
17.56	43	8.84	73	5.72	103	3.71	133	2.80	163	2.49	193	2.19	223	1.93	253	1.79	283
16.67	44	8.77	74	5.56	104	3.70	134	2.80	164	2.47	194	2.19	224	1.93	254	1.79	284
15.74	45	8.57	75	5.56	105	3.62	135	2.80	165	2.47	195	2.15	225	1.91	255	1.76	285
15.43	46	8.23	76	5.56	106	3.60	136	2.76	166	2.47	196	2.15	226	1.90	256	1.76	286
15.39	47	8.15	77	5.35	107	3.51	137	2.76	167	2.45	197	2.12	227	1.89	257	1.76	287
14.94	48	7.95	78	5.20	108	3.41	138	2.76	168	2.45	198	2.12	228	1.89	258	1.76	288
13.87	49	7.95	79	5.19	109	3.39	139	2.76	169	2.45	199	2.12	229	1.88	259	1.76	289
13.68	50	7.71	80	5.15	110	3.39	140	2.76	170	2.42	200	2.09	230	1.88	260	1.76	290
13.20	51	7.63	81	5.14	111	3.35	141	2.73	171	2.42	201	2.09	231	1.88	261	1.76	291
13.14	52	7.63	82	5.04	112	3.29	142	2.72	172	2.42	202	2.09	232	1.88	262	1.76	292
12.97	53	7.58	83	4.87	113	3.24	143	2.72	173	2.42	203	2.09	233	1.88	263	1.76	293
12.81	54	7.55	84	4.82	114	3.20	144	2.70	174	2.41	204	2.09	234	1.85	264	1.76	294
12.56	55	7.00	85	4.75	115	3.16	145	2.68	175	2.39	205	2.05	235	1.85	265	1.74	295
12.09	56	6.87	86	4.60	116	3.12	146	2.68	176	2.37	206	2.02	236	1.85	266	1.73	296
12.09	57	6.84	87	4.46	117	3.12	147	2.67	177	2.35	207	2.02	237	1.85	267	1.73	297
12.02	58	6.73	88	4.38	118	3.12	148	2.64	178	2.35	208	2.02	238	1.85	268	1.73	298
11.95	59	6.71	89	4.35	119	3.07	149	2.61	179	2.35	209	2.02	239	1.85	269	1.73	299
11.34	60	6.50	90	4.25	120	3.04	150	2.60	180	2.35	210	2.02	240	1.85	270	1.71	300
Flow Duration		Max.		35 days		95 days		185 days		275 days		355 days		Min.		Mean	
Run-off		28.60		10.00		3.97		2.32		1.68		1.02		0.85		4.10	

Table		Daily Flow Duration										STATION Malvasa		CATCHMENT AREA 35		YEAR 1970		Km ² UNIT		m ³ /sec.					
1	13.01	31	7.70	61	6.61	91	5.56	121	4.78	151	3.88	181	3.41	211	3.02	241	2.60	271	2.22	301	1.71	331	1.29	361	0.49
2	10.50	32	7.70	62	6.61	92	5.48	122	4.74	152	3.88	182	3.34	212	3.02	242	2.60	272	2.17	302	1.71	332	1.24	362	0.44
3	10.50	33	7.70	63	6.61	93	5.48	123	4.70	153	3.88	183	3.34	213	3.02	243	2.55	273	2.12	303	1.71	333	1.24	363	0.40
4	10.50	34	7.70	64	6.61	94	5.47	124	4.70	154	3.88	184	3.34	214	3.02	244	2.54	274	2.07	304	1.71	334	1.19	364	0.40
5	10.50	35	7.60	65	6.40	95	5.47	125	4.70	155	3.82	185	3.34	215	2.96	245	2.54	275	2.02	305	1.67	335	1.14	365	0.40
6	10.50	36	7.60	66	6.40	96	5.47	126	4.62	156	3.82	186	3.34	216	2.90	246	2.54	276	2.02	306	1.66	336	1.14		
7	10.50	37	7.58	67	6.40	97	5.47	127	4.54	157	3.81	187	3.34	217	2.90	247	2.54	277	2.02	307	1.66	337	1.08		
8	10.50	38	7.46	68	6.30	98	5.47	128	4.54	158	3.81	188	3.34	218	2.90	248	2.48	278	2.02	308	1.66	338	1.08		
9	10.50	39	7.36	69	6.30	99	5.47	129	4.48	159	3.81	189	3.28	219	2.90	249	2.48	279	1.97	309	1.61	339	1.08		
10	10.50	40	7.16	70	6.12	100	5.38	130	4.46	160	3.74	190	3.28	220	2.90	250	2.48	280	1.96	310	1.61	340	1.03		
11	10.50	41	7.12	71	6.10	101	5.38	131	4.37	161	3.74	191	3.28	221	2.90	251	2.48	281	1.92	311	1.61	341	1.03		
12	10.50	42	7.12	72	6.10	102	5.38	132	4.23	162	3.70	192	3.22	222	2.90	252	2.48	282	1.92	312	1.61	342	1.03		
13	10.11	43	7.02	73	6.04	103	5.30	133	4.23	163	3.68	193	3.22	223	2.78	253	2.42	283	1.92	313	1.60	343	1.03		
14	9.74	44	7.02	74	6.01	104	5.27	134	4.23	164	3.67	194	3.22	224	2.78	254	2.42	284	1.92	314	1.56	344	0.92		
15	9.60	45	7.02	75	6.01	105	5.22	135	4.23	165	3.67	195	3.15	215	2.78	255	2.42	285	1.92	315	1.56	345	0.82		
16	9.54	46	6.96	76	5.96	106	5.22	136	4.23	166	3.61	196	3.15	216	2.78	256	2.42	286	1.92	316	1.56	346	0.78		
17	9.52	47	6.96	77	5.92	107	5.20	137	4.18	167	3.60	197	3.15	217	2.78	257	2.38	287	1.92	317	1.56	347	0.78		
18	9.38	48	6.92	78	5.92	108	5.14	138	4.18	168	3.60	198	3.15	218	2.78	258	2.37	288	1.92	318	1.56	348	0.78		
19	9.16	49	6.92	79	5.92	109	5.12	139	4.16	169	3.56	199	3.15	219	2.78	259	2.37	289	1.92	319	1.50	349	0.73		
20	8.82	50	6.92	80	5.92	110	5.12	140	4.16	170	3.56	200	3.15	220	2.72	260	2.37	290	1.92	320	1.50	350	0.73		
21	8.60	51	6.92	81	5.86	111	5.06	141	4.09	171	3.54	201	3.15	221	2.72	261	2.35	291	1.92	321	1.50	351	0.73		
22	8.45	52	6.92	82	5.83	112	5.06	142	4.09	172	3.54	202	3.10	222	2.72	262	2.32	292	1.82	322	1.50	352	0.68		
23	8.27	53	6.92	83	5.83	113	5.04	143	4.02	173	3.54	203	3.08	223	2.72	263	2.32	293	1.82	323	1.45	353	0.68		
24	8.27	54	6.84	84	5.74	114	5.04	144	4.02	174	3.54	204	3.08	224	2.72	264	2.32	294	1.82	324	1.45	354	0.64		
25	8.26	55	6.82	85	5.74	115	5.04	145	4.02	175	3.48	205	3.03	225	2.72	265	2.32	295	1.82	325	1.45	355	0.64		
26	8.26	56	6.82	86	5.65	116	5.04	146	4.02	176	3.48	206	3.02	226	2.66	266	2.27	296	1.81	326	1.40	356	0.59		
27	8.26	57	6.71	87	5.65	117	4.95	147	4.02	177	3.48	207	3.02	227	2.66	267	2.27	297	1.76	327	1.40	357	0.54		
28	8.26	58	6.71	88	5.65	118	4.95	148	3.95	178	3.48	208	3.02	228	2.66	268	2.27	298	1.76	328	1.34	358	0.54		
29	7.94	59	6.62	89	5.56	119	4.88	149	3.95	179	3.41	209	3.02	229	2.60	269	2.22	299	1.72	329	1.34	359	0.50		
30	7.81	60	6.61	90	5.56	120	4.78	150	3.95	180	3.41	210	3.02	230	2.60	270	2.22	300	1.71	330	1.34	360	0.49		
Flow Duration		Max.		35 days		95 days		185 days		275 days		355 days		Min.		Mean									
Run-off		13.01		7.60		5.47		3.34		2.02		0.64		0.40		4.01									

Table		Daily Flow Duration										STATION Malvasa		CATCHMENT AREA		35	YEAR 1971		Km ² UNIT		m ³ /sec.																				
1	11.28	31	7.25	61	5.38	91	4.23	121	3.62	151	3.22	181	2.84	211	2.55	241	2.33	271	1.92	301	1.61	331	1.40	361	1.03																
2	10.81	32	7.18	62	5.27	92	4.17	122	3.62	152	3.20	182	2.84	212	2.55	242	2.32	272	1.87	302	1.60	332	1.40	362	0.98																
3	10.61	33	7.10	63	5.27	93	4.17	123	3.58	153	3.16	183	2.84	213	2.55	243	2.31	273	1.82	303	1.60	333	1.40	363	0.87																
4	10.50	34	7.03	64	5.27	94	4.16	124	3.58	154	3.15	184	2.83	214	2.54	244	2.30	274	1.82	304	1.56	334	1.40	364	0.87																
5	10.50	35	6.98	65	5.24	95	4.16	125	3.57	155	3.15	185	2.80	215	2.54	245	2.24	275	1.82	305	1.56	335	1.40	365	0.87																
6	10.50	36	6.82	66	5.24	96	4.02	126	3.57	156	3.15	186	2.78	216	2.54	246	2.22	276	1.82	306	1.56	336	1.40																		
7	10.50	37	6.75	67	5.24	97	4.02	127	3.57	157	3.15	187	2.78	217	2.50	247	2.22	277	1.82	307	1.56	337	1.40																		
8	10.50	38	6.72	68	5.24	98	4.02	128	3.56	158	3.08	188	2.78	218	2.48	248	2.22	278	1.82	308	1.56	338	1.34																		
9	10.50	39	6.62	69	5.24	99	4.02	129	3.56	159	3.08	189	2.78	219	2.48	249	2.22	279	1.82	309	1.56	339	1.29																		
10	10.50	40	6.62	70	5.14	100	3.95	130	3.56	160	3.02	190	2.78	220	2.47	250	2.22	280	1.82	310	1.56	340	1.29																		
11	10.50	41	6.62	71	5.12	101	3.89	131	3.56	161	3.02	191	2.78	221	2.47	251	2.22	281	1.82	311	1.50	341	1.29																		
12	10.50	42	6.51	72	5.10	102	3.88	132	3.54	162	3.02	192	2.74	222	2.47	252	2.22	282	1.82	312	1.50	342	1.29																		
13	9.82	43	6.20	73	5.06	103	3.88	133	3.54	163	3.02	193	2.72	223	2.47	253	2.17	283	1.82	313	1.50	343	1.29																		
14	9.54	44	6.10	74	5.04	104	3.83	134	3.54	164	3.02	194	2.72	224	2.47	254	2.17	284	1.82	314	1.50	344	1.29																		
15	9.54	45	6.10	75	4.68	105	3.82	135	3.41	165	2.96	195	2.72	225	2.42	255	2.17	285	1.76	315	1.50	345	1.24																		
16	9.38	46	6.01	76	4.68	106	3.82	136	3.41	166	2.96	196	2.72	226	2.42	256	2.17	286	1.76	316	1.50	346	1.24																		
17	8.95	47	6.01	77	4.56	107	3.82	137	3.41	167	2.96	197	2.72	227	2.42	257	2.12	287	1.76	317	1.50	347	1.18																		
18	8.50	48	6.01	78	4.56	108	3.82	138	3.34	168	2.96	198	2.72	228	2.41	258	2.12	288	1.76	318	1.50	348	1.18																		
19	8.45	49	5.95	79	4.49	109	3.82	139	3.28	169	2.96	199	2.66	229	2.41	259	2.12	289	1.76	319	1.50	349	1.18																		
20	8.45	50	5.83	80	4.47	110	3.82	140	3.28	170	2.94	200	2.66	230	2.38	260	2.07	290	1.71	320	1.50	350	1.18																		
21	8.35	51	5.74	81	4.38	111	3.81	141	3.28	171	2.92	201	2.60	231	2.37	261	2.06	291	1.71	321	1.50	351	1.18																		
22	8.35	52	5.74	82	4.38	112	3.76	142	3.28	172	2.92	202	2.60	232	2.37	262	2.02	292	1.71	322	1.50	352	1.14																		
23	8.27	53	5.74	83	4.38	113	3.76	143	3.28	173	2.90	203	2.60	233	2.36	263	2.02	293	1.71	323	1.50	353	1.03																		
24	8.04	54	5.65	84	4.37	114	3.74	144	3.28	174	2.90	204	2.60	234	2.36	264	1.92	294	1.71	324	1.50	354	1.08																		
25	7.95	55	5.65	85	4.30	115	3.70	145	3.28	175	2.90	205	2.56	235	2.35	265	1.92	295	1.71	325	1.50	355	1.08																		
26	7.86	56	5.56	86	4.30	116	3.70	146	3.28	176	2.90	206	2.55	236	2.35	266	1.92	296	1.71	326	1.50	356	1.08																		
27	7.58	57	5.47	87	4.30	117	3.70	147	3.28	177	2.90	207	2.55	237	2.35	267	1.92	297	1.71	327	1.50	357	1.08																		
28	7.46	58	5.40	88	4.28	118	3.70	148	3.26	178	2.90	208	2.55	238	2.35	268	1.92	298	1.71	328	1.45	358	1.08																		
29	7.46	59	5.38	89	4.23	119	3.68	149	3.22	179	2.84	209	2.55	239	2.35	269	1.92	299	1.71	329	1.45	359	1.08																		
30	7.25	60	5.38	90	4.23	120	3.62	150	3.22	180	2.84	210	2.55	240	2.35	270	1.92	300	1.66	330	1.45	360	1.03																		
<table><tr><td>Flow Duration</td><td>Max.</td><td>35 days</td><td>95 days</td><td>185 days</td><td>275 days</td><td>355 days</td><td>Min.</td><td>Mean</td></tr><tr><td>Run-off</td><td>11.28</td><td>6.98</td><td>4.16</td><td>2.80</td><td>1.82</td><td>1.08</td><td>0.87</td><td>3.49</td></tr></table>																								Flow Duration	Max.	35 days	95 days	185 days	275 days	355 days	Min.	Mean	Run-off	11.28	6.98	4.16	2.80	1.82	1.08	0.87	3.49
Flow Duration	Max.	35 days	95 days	185 days	275 days	355 days	Min.	Mean																																	
Run-off	11.28	6.98	4.16	2.80	1.82	1.08	0.87	3.49																																	

III - 4. MONTHLY AVERAGE PRECIPITATION

<u>Gauging Station</u>		<u>Elevation (m)</u>	<u>Recording Period</u>
(1)	Popayan (Electraguas)	1,790	Jan. 1955 - Dec. 1971
(2)	Popayan (Universidad)	1,790	Jan. 1930 - Sep. 1968
(3)	Florida		Jan. 1961 - Dec. 1968
(4)	Coconuco	2,300	Dec. 1946 - Oct. 1971
(5)	Purace	3,200	Nov. 1947 - Oct. 1971
(6)	Piendamo	1,850	Dec. 1946 - Sep. 1968
(7)	Silvia	2,400	Dec. 1946 - Sep. 1968
(8)	El Tambo	1,700	Dec. 1946 - Sep. 1968

(1) Gauging Station Elevation (m)
Popayan (Electraquas) 1,790

(Unit: mm)

Month Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1955	48	118	52.	181	79	46	56	45	109	176	84	190	1,184
1956	298	117	90	149	156	97	20	32	157	98	102	109	1,425
1957	150	279	223	104	153	21	33	19	70	354	168	270	1,844
1958	200	104	33	43	43	2	0	81	59	176	148	240	1,129
1959	67	168	60	173	164	103	22	49	49	386	373	117	1,731
1960	252	244	181	140	72	130	83	58	76	359	302	258	2,155
1961	157	73	158	191	35	70	63	42	89	250	410	101	1,639
1962	146	96	173	118	169	95	32	51	130	263	392	298	1,963
1963	69	194	138	280	167	148	45	24	29	314	396	162	1,966
1964	64	230	64	210	178	114	87	62	27	150	153	257	1,596
1965	84	17	28	201	84	12	4	18	99	189	208	125	1,069
1966	123	42	54	113	213	71	80	87	224	339	336	420	2,102
1967	83	222	193	79	76	86	8	2	70	195	498	212	1,724
1968	143	211	142	329	75	113	41	93	90	464	398	204	2,303
1969	158	166	73	353	82	104	57	37	187	372	354	314	2,257
1970	269	228	101	105	351	97	141	119	190	394	431	194	2,620
1971	463	293	229	139	200	79	88	63	107	325	367	-	-
Average	163	165	117	171	135	82	51	52	104	283	301	204	1,828
*1 Average of 10 years	119	150	119	183	123	94	47	49	88	291	347	215	1,825

*1 From 1959 to 1968

(2) Gauging Station
Popayan (Universidad)
Elevation (m)
1,790

Month Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1930	198.9	(123.1)	104.1	164.0	42.3	95.9	25.7	26.3	37.4	309.6	307.5	250.1	1,684.9
1931	149.9	284.3	96.5	141.8	156.7	49.1	103.8	8.8	117.8	193.7	522.0	195.3	2,019.7
1932	249.3	157.8	92.1	73.1	108.1	48.0	15.0	33.9	92.7	216.8	251.3	223.2	1,561.4
1933	231.2	83.6	97.3	190.6	121.2	133.6	99.9	99.7	122.5	196.6	621.0	391.2	2,413.4
1934	110.2	283.3	101.3	52.6	131.7	97.4	24.6	58.2	160.4	381.4	423.0	184.3	2,008.4
1935	180.6	220.9	119.4	214.2	150.5	177.0	-	-	-	-	-	-	-
1944	-	-	-	-	-	154.6	40.3	19.0	73.9	164.5	127.3	242.1	-
1945	103.5	127.9	61.2	184.5	165.2	25.8	8.7	23.3	83.4	228.3	392.3	207.6	1,611.7
1946	189.7	182.9	102.2	120.4	132.6	16.8	11.9	0.9	52.7	273.2	290.0	228.6	1,601.9
1947	168.6	94.7	162.4	60.2	154.5	77.8	121.5	85.1	171.4	300.5	237.5	105.7	1,739.9
1948	143.3	278.5	176.1	216.7	94.5	19.3	50.1	20.6	75.3	381.6	209.6	203.9	1,869.5
1949	235.0	119.9	138.9	123.4	125.1	73.5	55.4	52.0	105.6	426.1	338.3	231.3	2,024.5
1950	270.3	286.8	336.6	239.3	238.9	127.4	36.1	41.8	79.1	201.4	424.2	211.6	2,493.5
1951	195.6	60.9	165.4	102.8	140.4	20.7	49.8	24.3	58.1	172.9	267.8	225.8	1,484.5
1952	259.4	101.9	199.0	98.4	138.0	28.8	40.5	10.6	55.8	158.2	280.0	234.4	1,605.0
1953	110.5	70.9	217.9	95.5	92.0	107.4	26.3	5.4	198.8	278.1	355.1	247.2	1,805.1
1954	68.6	131.8	175.3	249.9	77.7	110.7	55.5	23.6	16.7	316.1	272.6	236.2	1,734.7
1955	204.5	157.0	268.0	197.5	132.2	104.6	87.5	45.0	122.8	291.1	375.3	-	-
1956	207.6	204.3	118.0	120.6	152.6	132.0	14.7	40.9	133.8	332.5	217.6	390.0	2,064.6
1957	81.7	196.7	165.6	142.6	369.7	29.6	22.5	1.0	35.8	265.5	283.3	295.0	1,889.0
1958	190.1	80.0	131.6	126.1	112.9	89.3	1.6	61.3	40.9	201.5	211.5	310.1	1,556.9
1959	139.9	83.4	50.3	126.1	125.6	90.3	18.3	25.9	53.8	269.6	268.7	120.4	1,372.3
1960	179.4	189.0	161.1	112.4	63.4	72.2	59.0	58.9	51.3	312.8	208.2	230.2	1,697.9
1961	98.8	32.3	130.6	139.3	46.0	67.7	52.3	33.2	71.1	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	-	-	261.5	-
1966	78.2	105.6	107.0	236.5	142.5	90.0	52.5	39.0	120.0	345.0	292.0	394.0	2,002.3
1967	70.0	218.5	192.5	93.5	177.5	81.0	8.5	8.0	68.0	228.0	486.5	278.0	1,910.0
1968	119.0	199.5	168.0	295.0	(75.0	113.0	41.0	93.0	90.0)	-	-	-	-
Average	163	157	148	151	134	84	43	36	88	269	319	246	1,838
*1 Average of 10 years	114	138	135	167	105	86	39	43	76	289	314	257	1,506

*1 From 1959 to 1968

(3) Gauging Station Elevation (m)
Florida

Month Year	(Unit: mm)												
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1961	149.1	120.3	145.1	164.3	70.7	75.7	65.2	5.5	34.1	189.4	180.6	226.7	1,426.7
1962	213.8	141.0	169.5	164.3	132.9	118.7	24.3	61.3	96.2	179.7	243.0	272.5	1,817.2
1963	160.5	283.5	124.8	339.7	78.5	100.5	32.1	16.2	63.3	167.2	326.0	183.4	1,875.5
1964	72.2	88.3	51.1	199.1	126.5	176.7	68.2	43.4	53.9	149.6	241.4	286.3	1,556.7
1965	157.1	33.7	72.7	147.2	70.9	1.2	6.7	25.7	154.7	289.1	310.8	214.6	1,484.4
1966	10.2	94.4	112.7	130.0	219.7	155.8	27.1	70.3	(25.8)	343.0	403.2	408.4	2,000.6
1967	125.4	175.4	231.2	161.3	94.2	77.0	47.9	5.8	76.9	222.3	466.0	205.6	1,889.0
1968	255.0	152.2	131.7	307.9	111.9	134.2	41.9	38.8	118.3	303.5	262.4	200.2	2,058.0
Average	143	136	130	202	113	105	39	33	78	230	304	250	1,763

(4) Gauging Station Elevation (m)
Coconuco (Cauca) 2,300

(Unit mm)

Month Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1946	-	-	-	-	-	-	-	-	-	-	-	116	-
1947	135	94	72	87	144	97	88	52	116	270	213	50	1,388
1948	72	119	95	198	89	35	-	-	23	162	138	160	-
1949	155	49	115	136	109	58	16	27	18	288	359	256	1,586
1950	221	235	-	-	-	327	37	48	30	156	142	104	-
1951	97	81	100	65	63	26	28	5	20	43	86	34	648
1952	22	23	56	41	18	18	5	1	3	118	81	58	444
1953	63	87	109	120	168	85	7	0	139	231	233	237	1,479
1954	9	228	146	127	142	162	29	50	12	288	240	235	1,668
1955	76	79	132	199	144	52	101	14	38	83	97	253	1,268
1956	121	108	106	51	164	79	15	-	76	193	168	263	-
1957	33	71	171	193	162	8	4	0	16	128	123	88	997
1958	126	-	37	170	131	43	1	130	52	164	275	295	-
1959	94	135	124	179	115	158	19	47	2	325	218	169	1,585
1960	208	126	159	184	150	28	107	57	13	335	218	157	1,832
1961	119	55	279	204	-	81	8	0	56	408	839	11	-
1962	137	65	263	51	285	175	4	106	55	202	436	429	2,208
1963	303	204	350	198	197	93	57	42	0	222	291	74	2,031
1964	31	15	109	229	105	132	103	88	31	148	162	101	1,254
1965	67	46	100	162	206	10	-	-	56	152	357	226	-
1966	52	68	276	168	152	98	93	37	112	217	725	1,357	3,355
1967	116	186	129	441	147	89	48	67	36	210	926	363	2,758
1968	130	358	224	204	355	118	116	64	173	192	437	155	2,526
1969	183	80	29	530	125	67	16	123	210	326	292	160	2,231
1970	82	374	159	113	188	71	84	23	120	296	508	226	2,244
1971	351	322	434	173	241	62	65	77	64	374	-	-	-
Average	120	137	157	176	160	87	70	48	59	217	315	223	1,769
*1 Average of 10 years	126	135	201	202	171	98	56	51	53	241	461	304	2,099

*1 From 1959 to 1968

(5) Gauging Station
Puracé
Elevation (m)
3,200

Month Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1947	-	-	-	-	-	-	-	-	-	-	19	49	-
1948	22	-	-	122	-	184	107	185	73	78	-	-	-
1949	82	39	92	112	114	-	-	-	82	114	163	154	-
1950	168	104	130	110	276	301	350	167	115	154	204	153	2,232
1951	124	223	178	181	222	333	431	226	147	198	160	101	2,524
1952	102	86	90	241	178	308	294	278	106	246	332	173	2,434
1953	115	70	170	207	264	292	760	240	128	187	173	134	2,740
1954	124	103	85	105	146	229	405	319	77	-	181	161	-
1955	115	61	112	89	113	94	237	102	63	226	174	307	1,693
1956	144	97	161	81	171	343	212	242	184	170	127	348	2,280
1957	29	78	95	106	252	192	177	124	53	89	135	169	1,499
1958	48	41	133	83	123	284	219	141	35	322	115	293	1,737
1959	67	99	124	197	214	182	150	76	80	276	291	262	2,018
1960	261	329	226	84	94	187	174	164	235	392	184	354	2,684
1961	130	67	142	250	92	173	249	242	109	287	395	111	2,247
1962	225	53	186	192	262	135	170	222	86	291	261	378	2,461
1963	228	224	72	291	202	143	111	130	149	185	388	238	2,361
1964	10	116	94	256	169	204	133	191	212	231	228	395	2,239
1965	231	13	94	293	242	155	210	121	140	370	515	287	2,671
1966	129	161	301	196	197	197	140	149	122	304	595	642	3,133
1967	121	160	384	202	234	205	268	257	201	320	618	122	3,092
1968	146	266	175	386	202	189	234	255	200	303	404	137	2,897
1969	186	109	66	334	174	188	233	112	230	475	323	229	2,659
1970	168	293	165	131	203	42	53	63	106	411	495	181	2,311
1971	282	-	234	315	207	44	19	55	68	280	-	-	-
Average	136	127	153	190	189	200	232	177	125	246	282	234	2,291
*1 Average of 10 years	155	149	180	235	191	177	184	181	153	296	388	293	2,582

*1 From 1959 to 1968

(6) Gauging Station
Piedamo (Cauca)
Elevation (m)
1,850

Month Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	132	59	146	60	120	98	85	37	86	356	218	(35) 81	1,478
1948	95	152	199	245	275	32	32	25	98	92	168	213	1,626
1949	217	251	152	148	242	83	80	49	76	136	273	236	1,943
1950	126	299	309	217	196	180	23	50	98	200	247	(124)	2,159
1951	152	122	169	83	37	37	41	31	51	280	322	199	1,524
1952	165	144	225	167	222	42	30	5	50	63	116	122	1,351
1953	62	89	157	145	225	111	38	21	212	325	248	233	1,866
1954	124	265	160	184	117	141	48	44	56	291	211	349	1,990
1955	236	158	284	130	177	107	122	51	72	160	181	309	1,987
1956	390	159	249	182	125	85	53	10	0	250	85	207	1,795
1957	128	119	272	207	145	5	9	5	126	169	103	159	1,447
1958	129	75	126	264	94	66	23	(103)	14	200	307	-	-
1959	179	-	130	61	137	137	2	56	24	317	-	189	-
1960	391	328	292	172	136	68	25	78	42	243	161	274	2,210
1961	150	120	282	240	68	55	72	1	54	156	367	161	1,726
1962	428	255	310	191	203	108	34	38	104	240	303	299	2,513
1963	231	302	179	289	180	98	48	66	92	190	366	154	2,195
1964	75	126	203	299	84	204	100	119	85	217	277	332	2,121
1965	148	28	152	306	157	15	4	49	46	248	434	322	1,909
1966	185	138	291	188	249	118	37	81	38	220	364	478	2,387
1967	184	276	325	147	165	84	52	14	48	231	308	221	2,055
1968	218	231	165	274	105	174	84	55	79	-	-	-	-
Average	193	164	213	191	157	93	47	45	70	218	253	224	1,868
*1 Average of 10 years	219	200	233	217	148	106	46	56	61	229	323	270	2,108

*1 From 1959 to 1968

(7) Gauging Station
Silvia (Cauca)

Elevation (m)
2,400

Month Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1946	-	-	-	-	-	-	-	-	-	-	-	94	-
1947	158	100	31	19	49	56	21	33	62	330	138	58	1,055
1948	62	56	101	191	58	25	24	0	63	83	76	92	831
1949	332	126	82	87	44	38	5	31	68	194	179	230	1,416
1950	-	190	338	200	156	91	3	0	26	114	153	157	-
1951	189	177	125	138	99	-	42	0	29	180	291	147	-
1952	181	102	125	167	52	12	0	0	25	82	314	169	1,229
1953	56	43	137	110	103	27	0	0	265	280	212	207	1,440
1954	59	119	156	200	46	83	0	16	0	303	211	226	1,419
1955	129	92	247	149	111	103	61	0	66	254	201	309	1,722
1956	200	170	136	78	70	25	0	0	129	299	120	131	1,358
1957	110	67	129	184	256	10	0	0	-	-	-	197	-
1958	118	60	69	157	69	38	0	28	0	183	217	141	1,080
1959	78	74	121	104	125	86	0	0	0	160	217	86	1,051
1960	226	195	205	78	152	0	40	32	18	250	156	236	1,588
1961	173	56	260	215	0	59	18	0	60	269	352	113	1,575
1962	156	109	146	205	266	87	0	0	0	164	62	261	1,456
1963	179	325	153	243	224	143	32	0	0	242	361	137	2,039
1964	43	126	30	297	120	169	-	64	34	117	150	113	-
1965	44	1	5	89	109	9	23	9	39	133	233	76	770
1966	0	38	71	24	87	36	20	13	28	134	277	245	973
1967	3	40	129	133	52	37	27	5	7	94	203	42	772
1968	35	100	41	183	38	-	8	0	8	-	-	-	-
Average	121	108	129	148	104	57	15	11	44	193	206	158	1,294
*1 Average of 10 years	94	106	116	157	117	70	19	12	19	174	223	145	1,252

*1 From 1959 to 1968

(8) Gauging Station Elevation (m)
EL Tambo (Cauca) 1,700

(Unit: mm)

Month Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	103.0	220.0	50.0	21.0	72.0	-	-	53.0	116.0	440.0	198.0	271.0	-
1948	74.0	136.0	186.0	209.0	161.0	31.0	53.0	16.0	102.0	351.0	179.0	129.0	-
1949	167.0	110.0	124.0	180.0	186.0	76.0	30.0	59.0	146.0	260.0	256.0	95.0	1,689
1950	129.0	317.0	229.0	262.0	(140.0)	117.0	19.0	(63.0)	-	-	-	-	-
1951	-	-	-	-	-	-	23.0	29.0	57.0	350.0	250.0	257.0	-
1952	237.0	67.0	76.0	190.0	124.0	9.0	21.0	2.0	2.0	220.0	182.0	116.0	1,266
1953	142.0	44.0	94.0	155.0	164.0	144.0	25.0	43.0	269.0	345.0	413.0	278.0	2,116
1954	100.0	97.0	200.0	235.0	100.0	97.0	62.0	42.0	56.0	290.0	222.0	239.0	1,740
1955	203.0	135.0	263.0	142.0	164.0	133.0	122.0	31.0	117.0	265.0	345.5	324.5	2,245
1956	426.5	242.0	74.5	337.0	154.0	57.0	0	4.0	8.0	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	171.0	-
1958	133.0	-	-	235.0	158.0	-	-	-	89.5	-	-	-	-
1966	-	-	(73.0)	109.0	148.0	227.0	71.0	98.0	163.0	265.0	383.0	216.0	-
1967	75.0	16.0	89.0	322.0	326.0	241.0	43.0	191.0	166.0	342.0	460.0	256.0	2,427
1968	155.0	135.0	97.0	313.0	109.0	55.0	52.0	81.0	113.0	-	-	-	-
Average	164	138	130	208	154	108	43	55	108	313	289	214	1,924

III - 5. DAILY PRECIPITATION

	<u>Gauging Station</u>	<u>Elevation (m)</u>	<u>Recording Period</u>
(1)	Popayan (Electraguas)	1,700	Jan. 1961 - Nov. 1971
(2)	Coconuco	2,300	Jan. 1961 - Oct. 1971
(3)	Purace	3,200	Jan. 1961 - Oct. 1971

Precipitation STATION Popayan													
CAUCA RIVER, IN THE BASIN OF ELEVATION UNIT mm YEAR 1961													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	13	7	0	13	0	3	0	0	0	0	13	2	1
2	53	8	0	18	0	0	0	0	10	0	2	0	2
3	2	0	0	6	0	0	0	0	16	0	42	0	3
4	12	12	0	8	0	0	0	0	0	0	20	2	4
5	0	18	0	0	0	4	14	0	8	0	11	0	5
6	0	9	0	0	7	0	8	0	38	0	8	0	6
7	0	0	36	0	5	0	0	0	0	0	83	0	7
8	0	0	2	0	0	9	2	0	0	16	23	0	8
9	0	14	0	6	0	0	4	0	0	10	2	13	9
10	0	0	3	0	0	7	6	0	0	25	28	15	10
11	0	0	5	0	0	14	12	0	5	11	16	2	11
12	0	0	8	6	0	5	0	0	0	26	4	0	12
13	3	0	0	0	0	0	3	0	0	5	3	5	13
14	20	0	8	0	0	2	0	0	0	12	0	4	14
15	8	0	0	3	0	3	7	0	0	4	36	4	15
16	0	0	8	0	7	7	5	0	0	0	22	18	16
17	0	0	0	0	5	13	0	0	0	3	14	16	17
18	0	0	0	0	0	0	0	0	0	3	8	0	18
19	0	0	12	0	2	0	0	11	0	32	13	0	19
20	0	0	36	42	2	0	2	0	0	2	28	3	20
21	0	0	14	21	3	0	0	0	0	14	10	2	21
22	0	0	0	17	0	0	0	0	0	8	0	8	22
23	0	0	9	22	0	3	0	0	12	12	12	0	23
24	0	0	0	18	0	0	0	0	0	24	4	0	24
25	0	5	3	4	3	0	0	0	0	3	2	0	25
26	12	0	0	3	0	0	0	0	0	0	3	0	26
27	18	0	0	2	3	0	0	0	0	0	0	0	27
28	8	0	3	2	0	0	0	12	0	0	0	2	28
29	3	0	0	0	0	0	0	9	0	10	0	5	29
30	5	0	0	0	0	0	0	10	0	15	0	0	30
31	0	0	9	0	0	0	0	0	0	12	0	0	31
Sum.	157	73	158	191	35	70	63	42	89	250	410	101	
Annual Total (1,639)													
4 4.3 100 x 1 x 30													

Precipitation STATION Popayan													
CAUCA RIVER, IN THE BASIN OF ELEVATION UNIT mm YEAR 1962													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	22	0	0	4	6	0	0	0	0	12	0	0	1
2	32	0	0	0	8	11	0	0	0	3	15	0	2
3	0	8	0	0	6	8	0	0	0	13	43	0	3
4	0	15	0	0	5	0	0	0	0	11	28	0	4
5	4	0	10	0	8	2	8	0	0	18	3	0	5
6	5	0	12	0	7	0	0	0	0	12	2	0	6
7	2	6	15	0	8	0	0	0	0	3	5	8	7
8	6	0	26	0	0	2	4	0	0	10	3	12	8
9	0	0	18	0	3	5	6	0	12	12	12	24	9
10	2	17	4	0	0	10	3	0	0	11	0	17	10
11	0	0	0	0	8	8	0	4	0	71	15	27	11
12	6	0	0	0	12	4	0	8	0	38	8	22	12
13	16	0	0	0	8	5	4	5	0	0	12	48	13
14	6	4	0	8	3	10	5	3	0	3	5	8	14
15	6	3	0	4	4	4	2	0	0	4	7	12	15
16	6	0	0	0	5	0	0	0	0	3	9	2	16
17	0	5	0	0	7	0	0	0	0	0	15	48	17
18	0	0	17	0	12	0	0	0	10	0	22	16	18
19	0	0	5	15	9	0	0	0	12	0	4	12	19
20	0	0	7	9	5	0	0	0	16	0	14	0	20
21	2	0	8	7	0	0	0	0	19	0	2	0	21
22	13	0	26	14	0	0	0	0	0	3	8	0	22
23	8	0	12	12	4	0	0	0	0	0	24	20	23
24	5	8	0	11	0	5	0	0	0	0	13	0	24
25	0	0	6	5	10	7	0	0	0	4	9	8	25
26	0	12	2	6	7	8	0	0	19	0	10	5	26
27	0	8	0	7	15	0	0	0	0	6	14	0	27
28	0	7	3	4	6	0	0	28	8	8	52	5	28
29	0	2	3	3	3	6	0	3	22	3	38	4	29
30	5	0	0	9	0	0	0	0	12	5	0	0	30
31	0	0	0	0	0	0	0	0	0	5	0	0	31
Sum.	146	96	173	118	169	95	32	51	130	263	392	298	
Annual Total (1,963)													
4 4.3 100 x 1 x 30													

Precipitation STATION Popayan													YEAR 1963	
CAUCA RIVER, IN THE BASIN OF ELEVATION UNIT mm														
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE	
1	0	0	0	5	18	0	0	0	0	0	34	0	1	
2	7	0	0	7	22	4	0	0	0	30	42	0	2	
3	0	22	0	12	11	0	0	0	0	0	28	0	3	
4	0	18	0	15	0	0	0	0	0	0	12	2	4	
5	0	27	0	14	8	0	4	0	0	0	27	0	5	
6	0	12	11	11	18	0	12	0	0	0	20	12	6	
7	0	8	0	20	23	0	0	0	0	0	23	0	7	
8	0	6	0	5	12	0	8	0	0	0	0	2	8	
9	12	3	0	10	5	22	4	0	0	0	24	8	9	
10	5	4	4	18	4	18	3	4	0	0	46	12	10	
11	0	5	6	12	10	17	4	5	0	0	8	4	11	
12	0	0	5	10	11	25	0	7	0	0	0	3	12	
13	6	0	0	2	3	18	0	3	0	18	10	2	13	
14	0	8	0	0	4	24	0	5	0	12	7	5	14	
15	0	0	0	0	2	10	0	0	0	24	0	0	15	
16	4	0	0	0	6	5	0	0	6	4	0	0	16	
17	0	19	0	0	0	5	0	0	0	2	14	4	17	
18	8	21	28	25	0	0	0	0	0	0	0	6	18	
19	0	11	7	72	0	0	0	0	0	0	0	0	19	
20	2	0	5	3	0	0	2	0	0	0	2	4	20	
21	2	4	10	3	10	0	6	0	5	8	8	2	21	
22	0	7	8	2	0	0	0	0	0	4	12	0	22	
23	0	14	0	0	0	0	0	0	4	0	18	0	23	
24	12	0	20	0	0	0	0	0	6	4	24	0	24	
25	4	3	17	4	0	0	0	0	4	88	6	12	25	
26	5	2	0	4	0	0	0	0	0	0	21	8	26	
27	2	0	0	5	0	0	0	0	0	26	0	6	27	
28	0	0	0	4	0	0	0	0	2	22	6	4	28	
29	0	0	3	0	0	0	0	0	0	26	2	20	29	
30	0	0	6	17	0	0	2	0	2	20	2	18	30	
31	0	0	8	0	0	0	0	0	0	26	0	28	31	
Sum.	69	194	138	280	167	148	45	24	29	314	396	162		
													Annual Total (1,966)	
													4 4.3 100 x 1 x 30	

Precipitation STATION Popayan													YEAR 1964	
CAUCA RIVER, IN THE BASIN OF ELEVATION UNIT mm														
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE	
1	24	0	0	8	2	8	0	0	0	0	3	4	1	
2	0	0	0	12	0	5	0	0	0	12	0	2	2	
3	0	0	0	4	4	4	0	0	0	0	22	3	3	
4	0	0	0	10	25	2	6	0	0	0	6	0	4	
5	0	0	0	18	4	10	4	0	0	7	0	10	5	
6	0	0	0	2	0	6	0	0	0	8	3	12	6	
7	0	0	0	4	0	3	0	0	0	3	2	5	7	
8	0	0	0	6	0	2	0	0	0	15	15	6	8	
9	0	23	0	2	12	2	0	0	0	5	2	5	9	
10	2	0	4	0	0	2	0	0	0	0	0	6	10	
11	2	40	2	12	11	4	0	0	0	5	0	20	11	
12	0	48	0	18	8	5	0	0	0	19	2	7	12	
13	8	0	0	10	6	2	0	0	0	11	5	0	13	
14	22	20	0	7	2	2	0	2	0	0	6	0	14	
15	4	15	0	6	0	5	0	4	8	0	3	3	15	
16	0	14	0	12	0	0	0	3	0	7	8	5	16	
17	0	8	25	8	0	0	5	4	0	19	3	7	17	
18	0	0	0	0	0	0	8	0	0	11	20	0	18	
19	0	4	0	0	0	0	10	2	0	0	0	3	19	
20	0	22	0	5	0	0	12	3	0	0	0	28	20	
21	0	18	0	0	0	7	0	4	0	17	2	10	21	
22	0	8	0	3	3	6	12	8	0	0	0	17	22	
23	0	6	0	2	2	0	2	3	7	6	3	29	23	
24	2	2	0	18	0	12	9	4	0	10	0	8	24	
25	0	2	0	8	2	10	0	2	3	3	3	21	25	
26	0	0	0	10	0	8	4	8	0	0	0	10	26	
27	0	0	0	10	12	3	6	4	0	0	2	8	27	
28	0	0	11	8	8	2	7	2	0	2	15	7	28	
29	0	0	14	4	50	2	2	6	0	2	16	0	29	
30	0	0	8	3	15	2	0	3	10	0	0	8	30	
31	0	0	0	12	0	0	0	2	0	0	0	13	31	
Sum.	64	230	64	210	178	114	87	62	27	150	153	257		
													Annual Total (1,596)	
													4 4.3 100 x 1 x 30	

Precipitation													STATION - Popayan	
CAUCA RIVER, IN THE BASIN OF													ELEVATION	
													UNIT	
													mm	
													YEAR	
													1965	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE	
1	0	2	0	0	0	0	0	0	0	14	4	8	1	
2	0	2	0	4	0	0	0	0	0	3	7	12	2	
3	8	2	0	2	0	0	0	0	0	0	9	0	3	
4	0	0	0	0	0	0	0	0	0	0	12	0	4	
5	0	0	0	0	0	0	0	0	0	0	23	0	5	
6	12	3	2	22	0	0	2	0	0	0	0	0	6	
7	4	4	0	0	3	0	0	0	3	0	6	9	7	
8	2	0	0	8	4	0	0	0	0	0	18	14	8	
9	0	0	3	12	10	0	0	0	2	0	2	18	9	
10	0	0	4	10	3	2	0	0	0	3	0	8	10	
11	0	0	0	6	17	0	0	0	0	8	0	10	11	
12	2	0	0	7	26	2	0	0	0	5	0	4	12	
13	0	0	5	4	2	0	0	0	0	7	5	22	13	
14	0	0	0	3	0	0	0	0	0	23	9	0	14	
15	0	0	2	8	0	0	0	0	0	9	12	0	15	
16	0	0	3	23	0	2	0	0	0	6	14	0	16	
17	0	0	7	42	0	4	0	4	5	3	18	4	17	
18	0	0	0	10	0	0	0	5	6	12	8	0	18	
19	0	0	0	23	0	0	0	7	0	28	8	2	19	
20	4	2	0	8	6	0	0	0	13	4	3	0	20	
21	0	0	0	0	4	0	0	0	8	0	5	0	21	
22	8	0	0	0	0	0	0	0	6	2	2	0	22	
23	5	0	0	4	0	0	2	0	4	4	0	0	23	
24	7	0	0	2	0	0	0	0	0	7	7	4	24	
25	2	0	0	0	0	2	0	0	3	26	10	0	25	
26	0	2	0	0	0	0	0	2	2	0	8	0	26	
27	7	0	0	0	3	0	0	0	16	8	9	0	27	
28	6	0	0	3	4	0	0	0	20	5	3	0	28	
29	10		7	0	0	0	0	0	4	3	2	2	29	
30	3		0	0	2	0	0	0	7	0	4	4	30	
31	4		2		0	0	0	0	9			0	31	
Sum.	84	17	28	201	84	12	4	18	99	189	208	125		
													Annual Total (1,069)	
													44.3 100 x 1 x 30	

Precipitation													STATION - Popayan	
CAUCA RIVER, IN THE BASIN OF													ELEVATION	
													UNIT	
													mm	
													YEAR	
													1966	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE	
1	0	0	0	0	0	7	18	0	5	32	4	27	1	
2	0	0	0	0	0	0	0	4	0	28	7	8	2	
3	0	0	3	0	0	0	0	7	8	34	26	5	3	
4	0	4	0	0	3	0	0	0	0	8	19	9	4	
5	0	0	0	0	8	0	0	4	0	0	4	11	5	
6	0	0	0	0	18	0	0	0	0	5	2	13	6	
7	0	0	0	0	11	0	2	0	9	2	28	29	7	
8	2	4	2	7	0	4	2	0	12	17	0	33	8	
9	4	0	9	0	0	7	12	0	17	0	0	35	9	
10	0	8	7	0	34	2	6	0	8	13	7	40	10	
11	0	3	0	0	0	0	17	0	4	21	16	8	11	
12	0	4	0	14	0	0	8	4	0	4	9	20	12	
13	8	0	0	4	0	0	0	7	0	12	4	2	13	
14	14	0	4	3	4	0	4	12	6	7	18	18	14	
15	0	0	2	0	0	4	0	0	2	0	32	3	15	
16	0	6	7	0	4	8	0	5	0	0	0	31	16	
17	0	0	2	0	8	0	0	12	27	5	12	4	17	
18	4	0	0	21	0	0	0	2	4	11	7	15	18	
19	2	0	0	8	0	0	0	0	0	35	0	7	19	
20	0	2	0	0	3	12	0	0	18	15	9	16	20	
21	0	0	0	0	7	7	0	0	21	8	18	2	21	
22	0	0	0	26	42	0	0	0	0	4	13	19	22	
23	8	0	0	28	12	0	4	0	0	24	4	28	23	
24	9	0	0	0	23	13	0	8	0	6	8	17	24	
25	17	4	4	2	5	0	0	0	0	13	0	0	25	
26	22	0	8	0	0	0	0	0	8	27	6	11	26	
27	0	7	0	0	4	3	0	6	0	8	10	2	27	
28	18	0	2	0	7	0	7	12	32	0	38	7	28	
29	7		4	0	12	0	0	0	27	0	14	0	29	
30	6		0	0	8	4	0	4	9	0	21	0	30	
31	2		0		0	0	0	0	0	0		0	31	
Sum.	123	42	54	113	213	71	80	87	224	339	336	420		
													Annual Total (2,102)	
													44.3 100 x 1 x 30	

Precipitation													STATION							
CAUCA RIVER, IN THE BASIN OF													Popayan							
ELEVATION													UNIT		mm		YEAR		1967	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE							
1	0	48	0	0	2	7	0	0	0	0	18	0	1							
2	0	52	0	0	3	4	0	0	0	0	13	0	2							
3	0	4	0	3	0	2	0	0	0	0	15	0	3							
4	3	8	0	0	6	37	0	0	0	0	19	0	4							
5	21	9	0	0	0	4	0	0	0	0	12	0	5							
6	0	7	0	0	2	0	4	0	0	0	11	0	6							
7	0	5	22	0	0	4	0	0	0	0	23	0	7							
8	0	3	0	0	4	0	0	0	11	5	31	0	8							
9	0	6	29	0	6	2	0	0	0	25	10	0	9							
10	0	8	0	0	12	6	0	0	0	4	8	7	10							
11	0	27	3	0	6	0	0	0	3	27	0	21	11							
12	0	0	4	0	0	11	0	0	0	13	12	0	12							
13	0	7	0	2	10	0	4	0	25	0	28	0	13							
14	0	0	13	6	0	0	0	0	0	0	8	4	14							
15	0	0	9	0	11	0	0	0	0	0	0	0	15							
16	12	11	15	0	0	0	0	0	0	0	17	0	16							
17	6	0	24	16	0	2	0	0	0	0	14	20	17							
18	0	0	0	0	0	0	0	0	0	0	12	4	18							
19	0	0	0	0	0	0	0	0	0	4	48	2	19							
20	0	0	0	0	0	0	0	0	0	19	18	0	20							
21	0	9	0	7	0	0	0	0	0	0	33	0	21							
22	8	3	31	20	0	0	0	0	0	0	9	8	22							
23	0	8	0	2	0	2	0	0	0	12	29	6	23							
24	3	0	0	5	0	0	0	0	0	17	15	17	24							
25	0	7	0	0	0	5	0	0	0	14	23	26	25							
26	0	0	9	15	0	0	0	2	0	33	42	4	26							
27	0	0	12	0	0	0	0	0	0	10	28	30	27							
28	0	0	4	3	2	0	0	0	17	0	2	27	28							
29	2		18	0	0	0	0	0	12	4	0	8	29							
30	20		0	0	4	0	0	0	2	2	0	26	30							
31	8		0		8		0	0		6		2	31							
Sum.	83	222	193	79	76	86	8	2	70	195	498	212								
													Annual Total (1,724)							
44.3 100 x 1 x 30																				

Precipitation													STATION Popayan	
CAUCA		RIVER, IN THE BASIN OF					ELEVATION		UNIT		mm		YEAR 1968	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE	
1	0	22	7	0	0	4	3	0	0	22	0	23	1	
2	0	18	12	0	0	10	4	0	0	0	0	0	2	
3	0	17	3	0	0	4	16	0	0	0	0	0	3	
4	0	12	0	0	0	0	9	2	0	2	0	8	4	
5	0	0	0	12	0	0	0	0	0	0	0	0	5	
6	0	3	0	0	0	32	0	0	4	28	0	8	6	
7	0	15	0	12	10	0	0	0	0	10	0	24	7	
8	5	0	0	7	28	0	0	0	0	45	23	0	8	
9	0	12	7	32	2	0	0	0	0	52	3	0	9	
10	0	0	4	57	0	0	0	0	0	12	12	25	10	
11	0	4	31	39	0	0	0	0	0	8	16	0	11	
12	0	0	8	12	0	8	0	0	0	42	18	28	12	
13	8	21	0	8	5	2	0	0	0	12	0	0	13	
14	4	0	22	22	11	0	4	0	0	0	18	0	14	
15	6	0	27	4	0	0	3	0	0	0	52	0	15	
16	0	0	15	3	0	5	0	0	0	8	12	0	16	
17	0	0	4	10	0	4	0	0	3	7	4	0	17	
18	0	0	0	17	4	0	0	0	0	48	42	0	18	
19	0	12	0	8	0	4	0	0	2	37	13	32	19	
20	0	5	0	0	0	4	0	0	12	0	35	0	20	
21	0	17	0	0	3	2	0	0	0	0	28	6	21	
22	10	26	0	24	0	8	0	0	0	0	8	14	22	
23	0	18	0	51	2	4	0	0	0	0	7	17	23	
24	16	0	0	5	0	0	0	0	0	8	0	6	24	
25	0	0	0	0	0	0	0	2	0	28	0	13	25	
26	12	3	0	3	0	0	0	0	0	42	12	0	26	
27	0	0	0	0	0	0	0	13	14	22	10	0	27	
28	0	2	0	0	0	0	2	16	41	13	21	0	28	
29	30	4	2	3	0	10	0	14	4	6	15	0	29	
30	20		0	0	2	12	0	38	10	12	29	0	30	
31	37		0		8		0	8		0		0	31	
Sum.	143	211	142	329	75	113	41	93	90	464	398	204		
													Annual Total (2,303)	
44.3 100 x 1 x 30														

Precipitation													STATION		Popayan		UNIT		mm		YEAR		1969	
CAUCA													RIVER, IN THE BASIN OF		ELEVATION									
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE											
1	3	0	0	0	10	28	0	0	0	25	5	13	1											
2	0	2	2	0	19	0	0	0	0	9	27	16	2											
3	0	0	5	0	15	0	0	0	0	6	0	0	3											
4	0	0	6	0	8	27	0	0	0	15	7	1	4											
5	0	0	0	35	0	4	0	3	0	9	4	13	5											
6	0	5	0	28	0	17	0	0	0	8	18	12	6											
7	0	9	0	0	0	2	0	0	0	33	12	0	7											
8	0	23	0	12	0	0	0	4	0	0	18	25	8											
9	0	7	0	12	0	2	0	8	0	0	5	15	9											
10	0	6	4	18	0	0	0	0	0	0	4	26	10											
11	2	2	12	38	0	0	0	0	0	25	2	84	11											
12	2	4	8	7	0	0	2	0	0	22	39	0	12											
13	0	3	14	19	0	0	0	0	0	14	32	0	13											
14	13	0	2	42	0	0	0	0	0	29	12	0	14											
15	28	7	0	12	4	0	0	0	0	15	45	0	15											
16	30	4	2	21	6	4	0	9	0	6	0	0	16											
17	16	0	3	10	7	2	0	5	0	4	0	0	17											
18	10	0	0	7	4	0	0	0	22	13	21	0	18											
19	0	47	0	5	0	6	0	0	36	0	0	12	19											
20	0	0	0	0	2	0	0	0	0	25	2	0	20											
21	0	0	0	0	0	0	0	3	0	0	3	0	21											
22	14	2	0	12	5	0	0	5	0	26	0	41	22											
23	18	26	0	8	0	0	0	0	2	21	22	5	23											
24	0	17	0	16	0	0	0	0	0	15	0	0	24											
25	0	2	0	6	0	0	0	0	27	6	10	0	25											
26	0	0	2	0	0	0	0	0	0	27	11	18	26											
27	0	0	7	0	0	12	0	0	38	2	30	0	27											
28	0	0	4	28	0	0	0	0	45	3	3	33	28											
29	0	0	2	12	2	0	0	0	12	1	2	0	29											
30	22	0	0	15	0	0	8	0	5	13	20	0	30											
31	0	0	0	0	0	47	0	0	0	0	0	0	31											
Sum.	158	166	73	353	82	104	57	37	187	372	354	314												
													Annual Total (2,257)											

Precipitation		STATION Popayan											YEAR 1971			
CAUCA		RIVER, IN THE BASIN OF											ELEVATION		UNIT mm	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE			
1	48	12	4	20	10	0	1	0	0	8	38		1			
2	3	10	6	5	8	0	2	0	0	4	3		2			
3	15	9	5	0	12	0	1	0	2	5	2		3			
4	20	20	0	0	5	3	2	3	2	5	6		4			
5	70	10	0	0	0	7	1	8	3	6	12		5			
6	40	15	0	8	0	7	5	0	7	3	1		6			
7	32	0	0	12	0	3	0	0	21	3	1		7			
8	18	47	0	3	0	4	0	0	6	27	0		8			
9	10	33	0	0	0	2	1	0	0	0	10		9			
10	9	5	0	0	15	4	1	0	5	49	4		10			
11	15	0	5	0	0	0	5	0	0	2	2		11			
12	30	0	5	0	0	5	9	0	0	7	4		12			
13	5	0	0	0	0	0	4	0	0	0	0		13			
14	0	0	0	13	12	13	0	1	3	0	18		14			
15	0	52	0	5	8	0	0	4	0	3	14		15			
16	18	20	3	0	5	0	0	5	0	7	45		16			
17	20	42	5	0	0	0	0	7	0	1	19		17			
18	6	13	8	0	5	3	0	0	0	4	7		18			
19	10	5	8	0	33	0	0	15	0	1	5		19			
20	9	0	5	0	20	7	0	0	37	2	13		20			
21	0	0	6	3	21	3	0	0	1	23	3		21			
22	0	0	4	5	56	4	0	0	1	8	21		22			
23	38	0	15	0	5	0	0	0	0	45	7		23			
24	14	0	5	0	12	0	0	2	3	0	27		24			
25	5	0	20	8	5	0	5	5	0	45	27		25			
26	6	0	10	7	5	3	51	10	2	34	30		26			
27	4	0	20	0	3	0	0	3	0	23	15		27			
28	5	0	10	0	0	2	0	0	0	2	29		28			
29	3	0	10	0	0	1	0	0	14	3	0		29			
30	0	0	40	0	0	8	0	0	0	5	4		30			
31	10	0	35	0	0	0	0	0	0	0	0		31			
Sum.	463	293	229	89	240	79	88	63	107	325	367					
Annual Total ()																
443 100 x 1 x 30																

Precipitation		STATION Cococuco											YEAR 1961	
CAUCA		RIVER, IN THE BASIN OF											ELEVATION	
UNIT		mm											YEAR 1961	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE	
1	0	15	0	3		0	0	0	0	0	59	0	1	
2	0	15	0	0		0	0	0	0	0	85	0	2	
3	0	14	0	28		0	0	0	0	0	10	0	3	
4	0	5	0	39		0	0	0	5	0	15	0	4	
5	0	0	0	0		0	0	0	8	0	40	0	5	
6	0	0	0	0		0	0	0	38	0	85	0	6	
7	0	0	0	0		0	0	0	0	0	35	0	7	
8	0	0	0	0		27	0	0	0	0	10	0	8	
9	0	0	47	0		0	0	0	0	0	29	0	9	
10	0	0	0	0		0	0	0	0	0	15	0	10	
11	0	0	0	0		11	4	0	0	20	30	0	11	
12	0	0	27	21		15	0	0	0	30	32	0	12	
13	0	0	1	0		13	0	0	0	15	6	0	13	
14	0	0	5	0		15	4	0	5	20	10	0	14	
15	23	0	19	0		0	0	0	0	25	50	0	15	
16	10	0	8	0		0	0	0	0	15	35	0	16	
17	8	0	4	0		0	0	0	0	45	35	0	17	
18	8	0	9	0		0	0	0	0	3	20	0	18	
19	4	0	30	0		0	0	0	0	48	8	0	19	
20	0	0	3	7		0	0	0	0	9	55	0	20	
21	0	0	32	9		0	0	0	0	7	17	0	21	
22	0	0	75	4		0	0	0	0	30	49	0	22	
23	0	0	0	8		0	0	0	0	5	70	0	23	
24	0	0	0	35		0	0	0	0	3	4	0	24	
25	10	0	0	39		0	0	0	0	15	0	0	25	
26	0	1	0	4		0	0	0	0	45	35	0	26	
27	0	1	0	7		0	0	0	0	13	0	0	27	
28	10	4	19	0		0	0	0	0	5	0	0	28	
29	16	0	0	0		0	0	0	0	9	0	3	29	
30	10	0	0	0		0	0	0	0	18	0	8	30	
31	20		0			0	0	0	0	28		0	31	
Sum.	119	55	279	204		81	8	0	56	408	839	11		
Annual Total ()														
44.3 100 x 1 x 30														

Precipitation STATION Coconuco													YEAR 1962	
CAUCA RIVER, IN THE BASIN OF ELEVATION UNIT mm														
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE	
1	0	0	0	0	11	0	1	13	0	8	15	0	1	
2	0	0	0	0	8	0	0	8	0	1	3	3	2	
3	0	0	0	0	5	0	0	3	0	4	1	0	3	
4	0	0	0	0	15	0	0	1	0	15	29	1	4	
5	0	0	0	0	3	3	3	5	0	4	6	0	5	
6	0	0	20	0	4	8	0	29	0	7	61	0	6	
7	0	0	28	0	1	1	0	4	0	2	18	0	7	
8	0	25	58	0	1	9	0	5	0	9	5	0	8	
9	0	40	3	0	0	0	0	0	0	21	9	0	9	
10	30	0	0	0	0	3	0	3	0	42	2	20	10	
11	25	0	21	0	0	1	0	14	0	5	0	13	11	
12	14	0	0	0	5	31	0	9	0	15	1	90	12	
13	8	0	14	0	0	9	0	0	3	3	25	5	13	
14	3	0	0	0	10	0	0	1	8	9	3	9	14	
15	8	0	0	0	52	2	0	8	0	2	5	2	15	
16	9	0	0	0	11	5	0	3	0	18	10	15	16	
17	0	0	0	0	19	0	0	0	18	1	30	10	17	
18	0	0	0	0	5	9	0	0	1	0	70	3	18	
19	0	0	0	0	18	3	0	0	0	0	3	70	19	
20	0	0	8	0	25	18	0	0	8	0	5	85	20	
21	3	0	0	20	0	0	0	0	5	15	39	21		
22	0	0	35	8	0	55	0	0	0	1	18	8	22	
23	24	0	3	5	0	6	0	0	0	8	0	3	23	
24	13	0	8	8	15	0	0	0	0	9	14	24		
25	0	0	5	4	8	3	0	0	5	0	30	21	25	
26	0	0	20	0	20	8	0	0	0	2	9	26		
27	0	0	35	0	47	0	0	0	0	1	2	27		
28	0	0	5	0	2	0	0	0	0	45	6	28		
29	0	0	0	5	0	0	0	9	9	10	0	29		
30	0	0	0	1	0	1	0	0	3	5	0	30		
31	0	0	0	0	0	0	0	0	10	1	31			
Sum.	137	65	253	51	285	175	4	106	55	202	436	429		
													Annual Total (2,208)	
													44.3 100 x 1 x 30	

Precipitation STATION Coconuco													YEAR 1963	
CAUCA RIVER, IN THE BASIN OF ELEVATION UNIT mm														
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE	
1	2	1	6	5	17	0	3	3	0	5	15	1	1	
2	0	5	7	18	5	0	8	8	0	3	8	3	2	
3	8	3	5	9	8	0	1	2	0	1	64	0	3	
4	15	8	8	3	48	0	5	0	0	0	8	0	4	
5	1	0	9	10	3	0	0	0	0	5	9	0	5	
6	0	0	10	22	18	0	0	8	0	3	15	2	6	
7	5	1	12	2	4	0	0	3	0	0	8	0	7	
8	0	5	21	9	15	5	0	5	0	0	21	0	8	
9	0	3	22	5	8	22	9	10	0	0	3	5	9	
10	0	0	4	1	1	3	0	0	0	0	8	9	10	
11	0	0	5	15	3	2	1	0	0	5	10	2	11	
12	0	15	29	35	0	49	5	0	0	0	3	0	12	
13	8	8	18	8	2	3	3	0	0	3	20	0	13	
14	5	20	0	3	0	8	0	0	0	5	8	15	14	
15	18	8	4	2	0	0	0	0	0	10	5	3	15	
16	3	3	3	8	0	0	0	0	0	17	2	0	16	
17	0	24	5	3	15	0	8	3	0	9	5	0	17	
18	25	31	3	1	5	0	3	0	0	4	2	0	18	
19	1	5	9	0	8	1	0	0	0	5	18	5	19	
20	40	5	15	2	3	0	0	0	0	8	5	8	20	
21	15	0	21	20	1	0	0	0	0	5	1	0	21	
22	9	0	15	5	22	0	0	0	0	1	8	0	22	
23	0	5	18	0	8	0	0	0	0	0	2	3	23	
24	0	28	49	0	3	0	3	0	0	0	5	5	24	
25	14	13	1	1	0	0	0	0	0	21	8	0	25	
26	45	9	8	6	0	0	8	0	0	8	5	1	26	
27	0	4	0	3	0	0	0	0	0	3	0	9	27	
28	27	0	5	0	0	0	0	0	0	9	1	0	28	
29	35	0	15	5	0	0	0	0	0	2	3	3	29	
30	18	0	0	3	0	0	0	0	0	61	21	0	30	
31	9	0	3	0	0	0	0	0	0	29	0	31		
Sum.	303	204	350	198	197	93	57	42	0	222	291	74		
													Annual Total (2,031)	
													44.3 100 x 1 x 30	

Precipitation STATION Coronuco													
CAUCA RIVER, IN THE BASIN OF ELEVATION UNIT mm YEAR 1964													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	2	0	0	8	3	5	5	0	0	2	15	2	1
2	3	0	0	3	8	2	2	0	0	0	20	1	2
3	4	0	0	5	0	10	10	0	0	0	3	0	3
4	3	0	0	20	2	0	0	0	0	0	5	0	4
5	5	0	0	8	0	8	8	8	0	0	3	0	5
6	0	0	0	5	0	4	4	15	0	0	10	8	6
7	0	0	0	5	0	5	5	9	0	2	2	20	7
8	0	0	0	15	3	0	0	3	0	8	5	3	8
9	0	0	5	45	1	3	3	2	2	10	3	9	9
10	0	0	3	8	5	9	9	20	5	3	21	3	10
11	0	0	9	5	3	5	5	8	9	22	8	8	11
12	0	0	2	2	0	3	3	0	15	5	3	1	12
13	0	3	5	9	8	15	15	0	0	6	0	0	13
14	0	0	8	4	0	5	5	5	0	1	7	2	14
15	0	0	0	10	0	9	9	1	0	4	2	0	15
16	0	0	0	0	0	0	0	0	0	2	3	0	16
17	0	0	0	3	3	0	0	8	0	3	3	0	17
18	0	0	8	11	8	2	2	0	0	8	8	2	18
19	0	0	1	2	0	8	8	0	0	0	0	0	19
20	0	3	3	9	0	3	0	2	0	0	2	2	20
21	0	9	0	15	0	0	0	0	0	4	5	0	21
22	3	0	5	3	17	0	2	0	0	8	0	3	22
23	5	0	0	8	8	0	0	2	0	3	4	5	23
24	0	0	0	5	2	0	0	0	0	9	0	3	24
25	0	0	10	0	1	0	8	0	0	28	15	8	25
26	0	0	8	4	5	0	0	0	0	5	0	5	26
27	1	0	9	0	14	10	0	0	0	3	9	0	27
28	0	0	2	0	0	8	0	0	0	0	1	1	28
29	0	0	19	5	9	0	0	5	0	4	5	2	29
30	0	0	2	3	0	18	0	0	0	8	0	4	30
31	0	0	10	5	0	0	0	0	0	0	0	9	31
Sum.	31	15	109	220	105	132	103	88	31	148	162	101	
Annual Total (1,245)													
44.3 100 x 1 x 30													

Precipitation STATION Coronuco													
CAUCA RIVER, IN THE BASIN OF ELEVATION UNIT mm YEAR 1965													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	2	0	5	5	4	7	1			2	0	11	1
2	4	0	0	2	6	0	3			16	0	0	2
3	0	0	0	0	1	0	0			0	0	0	3
4	3	0	3	0	0	0	2			0	0	0	4
5	0	0	0	0	3	0	0			4	0	0	5
6	0	0	8	5	5	0	0			0	18	4	6
7	3	0	4	3	7	0	0			0	12	42	7
8	0	0	7	8	2	0	0			0	0	38	8
9	0	0	3	9	10	0	0			0	0	17	9
10	0	0	0	0	4	0	0			4	6	2	10
11	3	0	4	14	33	0	0			15	15	15	11
12	0	8	9	5	53	0				1	3	14	12
13	2	3	10	17	7	0				0	0	4	13
14	0	0	8	5	9	0				16	11	3	14
15	0	0	15	4	8	0				2	6	0	15
16	0	0	0	19	5	0				35	41	0	16
17	5	0	0	4	9	0			0	9	3	0	17
18	15	0	0	2	0	0			5	16	12	0	18
19	4	0	2	8	0	0			0	2	9	0	19
20	3	0	3	15	3	0			0	0	14	0	20
21	8	0	0	3	0	0			1	0	15	4	21
22	0	3	0	8	0	0			0	0	7	0	22
23	5	8	0	4	0	0			0	2	22	0	23
24	5	3	0	0	0	0			0	0	18	0	24
25	3	9	0	0	0	0			0	9	20	5	25
26	0	0	0	3	9	0			1	0	12	22	26
27	0	4	5	8	4	0			3	13	64	2	27
28	2	8	3	0	3	0			4	4	11	0	28
29	0	0	0	8	0	0			15	0	37	0	29
30	0	0	9	3	20				27	0	1	3	30
31	0	0	2	10	3					2		40	31
Sum.	67	46	100	162	206	10				152	357	226	
Annual Total ()													
44.3 100 x 1 x 30													

Precipitation STATION Coconuco													YEAR 1966	
CAUCA RIVER, IN THE BASIN OF ELEVATION UNIT mm														
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE	
1	7	0	0	8	9	2	5	0	2	2	15	0	1	
2	3	0	0	4	18	8	0	3	4	5	8	14	2	
3	0	9	0	15	3	0	9	0	8	8	5	58	3	
4	0	0	0	1	25	5	2	0	0	3	16	18	4	
5	0	3	41	3	14	0	1	0	0	28	9	43	5	
6	0	10	28	18	0	4	0	0	0	2	21	81	6	
7	0	13	0	0	0	0	0	0	0	1	16	35	7	
8	0	12	2	13	3	5	2	0	3	10	19	49	8	
9	9	0	15	10	18	0	3	0	5	5	29	78	9	
10	0	0	25	0	0	9	5	0	3	3	8	89	10	
11	0	7	82	5	1	0	3	2	0	21	15	45	11	
12	0	0	7	0	0	3	0	1	0	42	19	75	12	
13	0	11	18	0	8	0	45	3	2	2	25	105	13	
14	0	0	0	0	5	7	13	3	25	8	45	95	14	
15	0	0	0	3	18	0	0	9	15	1	29	74	15	
16	0	0	0	0	8	0	0	0	0	0	8	15	16	
17	0	0	0	0	3	17	0	0	15	9	13	53	17	
18	7	0	0	4	5	3	0	0	3	6	19	58	18	
19	0	0	0	3	2	0	0	0	0	1	53	19	19	
20	0	0	3	0	0	5	0	8	0	0	14	49	20	
21	0	0	7	0	0	8	0	3	3	49	28	117	21	
22	0	0	9	3	0	0	3	1	1	0	1	99	22	
23	0	0	5	9	2	2	0	3	5	8	15	82	23	
24	0	0	0	15	1	9	2	0	0	0	82	2	24	
25	0	0	15	35	0	0	0	0	3	0	3	0	25	
26	0	0	9	19	5	5	0	0	0	0	2	0	26	
27	0	3	2	0	3	0	0	0	2	3	49	3	27	
28	26	0	0	0	0	0	0	0	0	0	15	0	28	
29	0	0	5	0	1	5	0	0	0	0	59	1	29	
30	0	0	3	0	0	1	0	0	8	0	85	0	30	
31	0	0	0	0	0	0	0	1	0	0	0	0	31	
Sum.	52	68	276	168	152	98	93	37	112	217	725	1,357		
Annual Total (3,355)														
44.3 100 x 1 x 30														

Precipitation STATION Coconuco													YEAR 1967	
CAUCA RIVER, IN THE BASIN OF ELEVATION UNIT mm														
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE	
1	5	15	0	9	2	5	5	1	0	2	28	5	1	
2	2	8	0	15	1	3	3	0	2	0	19	8	2	
3	0	4	8	4	18	10	1	0	4	4	15	30	3	
4	8	11	16	0	5	0	0	0	0	2	8	18	4	
5	5	5	1	19	0	4	0	0	0	0	4	19	5	
6	2	8	4	0	0	21	0	3	0	0	18	17	6	
7	12	3	0	0	2	0	0	1	0	0	25	35	7	
8	0	9	0	5	0	6	3	4	0	3	15	0	8	
9	11	16	0	0	0	4	0	5	0	5	9	3	9	
10	0	0	0	0	3	0	1	0	0	22	30	0	10	
11	0	8	7	0	0	0	0	3	3	3	48	5	11	
12	2	0	8	5	20	0	4	0	11	30	40	25	12	
13	10	0	0	21	0	1	9	0	0	5	45	14	13	
14	5	8	0	8	0	0	0	5	0	0	50	3	14	
15	0	5	5	15	21	0	8	1	0	2	35	37	15	
16	0	18	0	9	0	0	1	4	0	4	42	9	16	
17	0	3	15	58	14	25	0	8	3	0	9	15	17	
18	8	11	16	38	18	4	0	0	0	8	7	0	18	
19	0	8	18	29	0	0	1	0	0	5	65	15	19	
20	0	12	0	51	0	0	0	0	0	0	50	20	20	
21	2	4	0	9	0	0	5	0	1	25	10	0	21	
22	0	2	2	3	2	3	0	2	0	0	55	13	22	
23	0	6	0	5	1	0	4	0	0	2	85	5	23	
24	0	18	0	68	0	0	0	9	4	5	37	9	24	
25	8	3	4	12	2	0	0	3	0	11	77	4	25	
26	5	0	0	5	0	0	0	5	0	15	18	0	26	
27	8	1	0	22	35	0	0	0	2	3	29	37	27	
28	3	0	1	13	3	0	0	8	0	21	51	0	28	
29	0	0	0	0	0	2	3	0	3	25	1	17	29	
30	5	0	3	18	0	1	0	5	3	5	1	0	30	
31	15	0	21	0	0	0	0	0	0	3	0	0	31	
Sum.	116	186	129	441	147	89	48	67	36	210	926	363		
Annual Total (2,758)														
44.3 100 x 1 x 30														

Precipitation STATION Coconuco													
CAUCA RIVER, IN THE BASIN OF ELEVATION UNIT mm YEAR 1968													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	0	63	5	4	15	25	2	1	8	2	5	2	1
2	3	13	61	8	3	14	1	0	20	3	8	8	2
3	0	18	3	9	8	9	5	0	3	0	11	4	3
4	0	29	18	25	4	10	0	3	4	0	70	15	4
5	0	56	22	0	0	10	0	2	8	0	3	1	5
6	0	13	15	0	5	8	0	0	3	6	28	0	6
7	0	5	0	5	71	0	1	0	0	15	0	0	7
8	0	17	20	2	40	3	0	0	8	10	74	0	8
9	0	0	3	0	8	1	5	8	4	2	18	0	9
10	0	1	2	0	5	0	10	0	0	0	1	2	10
11	0	0	12	15	55	0	8	4	0	5	0	7	11
12	0	0	1	8	13	0	3	3	0	8	2	4	12
13	3	5	0	0	0	3	0	5	5	1	35	0	13
14	13	0	14	0	0	0	0	0	1	0	8	0	14
15	0	0	0	65	15	0	18	0	3	0	39	45	15
16	18	0	3	8	5	0	10	0	6	0	11	25	16
17	0	5	3	5	15	15	4	0	1	2	15	5	17
18	13	0	0	8	16	3	1	0	2	0	3	2	18
19	0	8	4	3	25	4	0	0	3	9	8	0	19
20	3	21	0	25	8	0	8	0	12	0	20	0	20
21	0	0	4	0	3	1	2	0	29	0	31	1	21
22	0	12	14	0	0	8	0	0	8	4	8	0	22
23	8	5	4	2	4	0	0	1	3	0	4	24	23
24	15	14	0	1	9	0	1	0	4	25	8	3	24
25	35	35	5	3	0	3	3	0	5	10	10	5	25
26	19	4	8	0	0	1	15	8	7	35	15	0	26
27	0	3	0	0	3	0	0	1	0	8	0	0	27
28	0	6	1	0	18	0	9	3	0	15	1	2	28
29	0	25	0	8	5	0	4	2	22	28	0	0	29
30	0	1	0	0	2	0	1	5	2	4	1	0	30
31	0		1		0		5	17		0		0	31
Sum.	130	358	224	204	355	118	116	64	173	192	437	155	
Annual Total (2,526)													
44.3 100 x 1 x 30													

Precipitation STATION Coconuco													
CAUCA RIVER, IN THE BASIN OF ELEVATION UNIT mm YEAR 1969													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	2	0	2	2	8	5	0	0	0	9	5	10	1
2	1	0	1	21	15	17	0	1	0	5	0	1	2
3	18	0	0	0	2	8	2	0	0	17	0	3	3
4	0	0	0	0	0	3	0	0	0	6	0	1	4
5	0	0	0	0	5	21	0	0	0	25	10	15	5
6	0	0	15	0	0	0	0	8	0	6	10	5	6
7	0	2	5	3	0	4	0	2	0	9	51	3	7
8	4	0	0	28	0	1	0	0	1	12	25	1	8
9	8	0	0	40	1	5	0	0	0	0	35	1	9
10	3	28	0	35	6	0	0	12	0	0	45	14	10
11	0	0	0	51	1	0	0	4	0	0	4	9	11
12	0	0	0	4	8	2	0	9	0	9	2	35	12
13	0	5	0	18	2	0	0	0	12	0	4	4	13
14	25	0	0	80	3	0	1	15	0	19	0	5	14
15	4	2	0	60	0	0	0	8	0	27	25	9	15
16	0	4	0	21	1	0	0	1	0	9	5	1	16
17	8	3	13	15	5	1	0	15	0	7	4	0	17
18	8	28	0	8	0	1	2	18	2	15	10	1	18
19	0	1	0	2	2	0	0	0	35	2	4	0	19
20	4	0	0	1	4	0	0	0	11	0	0	12	20
21	18	0	0	45	51	0	0	30	25	0	12	0	21
22	0	0	1	21	3	0	0	0	15	10	6	0	22
23	1	4	0	3	65	0	5	0	18	58	10	0	23
24	35	3	0	39	6	0	2	0	21	37	2	0	24
25	19	0	2	4	0	0	0	0	15	14	19	1	25
26	0	0	0	1	2	0	0	0	1	7	4	0	26
27	8	0	0	8	9	0	1	0	8	0	0	0	27
28	2	0	0	0	0	0	3	0	5	0	0	27	28
29	15	5	5	1	0	0	0	0	41	10	0	1	29
30	0		0	0	0	0	0	0	4	0	0	0	30
31	0		0		15		0	0		9		0	31
Sum.	183	80	29	530	215	67	16	123	210	326	292	160	
Annual Total (2,231)													
44.3 100 x 1 x 30													

Precipitation STATION Coconuco													
CAUCA	RIVER, IN THE BASIN OF										ELEVATION	UNIT	YEAR 1970
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	0	8	29	0	0	0	0	0	0	15	13	47	1
2	0	0	39	0	2	4	0	0	3	8	23	21	2
3	0	14	10	0	2	1	0	0	1	6	16	17	3
4	0	35	21	0	1	2	0	0	7	3	23	0	4
5	0	11	0	2	0	8	0	0	6	17	29	14	5
6	0	25	6	3	0	10	0	0	0	7	2	6	6
7	0	2	15	4	2	12	0	0	0	22	10	0	7
8	0	0	24	0	15	17	10	1	0	42	23	0	8
9	0	1	1	0	9	7	3	0	0	14	53	1	9
10	0	0	0	3	5	0	0	0	0	9	22	15	10
11	10	0	2	2	1	1	26	0	0	17	2	0	11
12	16	0	0	19	2	3	0	3	0	0	12	5	12
13	2	0	0	2	0	1	0	0	0	0	13	0	13
14	0	0	0	28	12	5	0	0	3	0	10	0	14
15	25	0	0	14	18	0	0	0	0	10	16	0	15
16	0	14	0	6	12	0	0	0	0	5	12	0	16
17	0	12	0	4	17	0	0	0	9	0	11	0	17
18	3	18	0	2	34	0	0	0	1	0	10	0	18
19	0	59	0	0	2	0	0	0	8	0	37	14	19
20	0	29	0	0	0	0	0	0	0	2	10	37	20
21	0	5	0	0	12	0	0	0	4	12	12	18	21
22	0	0	0	0	1	0	0	0	19	17	35	16	22
23	0	4	0	0	0	0	0	0	4	1	13	0	23
24	0	16	0	0	4	0	0	2	6	13	22	0	24
25	0	4	0	2	12	0	1	0	10	14	12	0	25
26	1	10	0	1	0	0	2	1	2	18	16	10	26
27	0	2	0	0	14	0	35	3	6	20	14	5	27
28	0	5	10	1	3	0	0	0	6	8	0	0	28
29	0		2	0	0	0	7	0	3	2	16	0	29
30	10		0	20	0	0	0	13	22	10	21	0	30
31	15		0		0		0	0		4		0	31
Sum.	82	274	159	113	188	71	84	23	120	296	508	226	
Annual Total (2,144)													
4.4.3 100 x 1 x 30													

Precipitation STATION Coconuco													
CAUCA	RIVER, IN THE BASIN OF										ELEVATION	UNIT	YEAR 1971
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	0	8	2	26	25	0	0	0	0	30			1
2	0	20	2	40	20	1	0	3	0	30			2
3	5	8	13	6	22	0	0	0	0	13			3
4	40	15	3	0	15	1	0	0	0	23			4
5	31	4	5	5	27	3	3	4	5	7			5
6	28	5	0	5	3	2	4	0	0	0			6
7	29	7	0	2	7	2	9	0	13	11			7
8	14	31	5	2	17	0	1	0	12	7			8
9	14	40	0	0	0	0	2	0	4	5			9
10	10	15	0	0	3	0	1	2	0	34			10
11	8	34	16	0	0	0	6	6	0	17			11
12	3	13	28	2	3	5	14	2	0	8			12
13	10	11	10	11	0	11	2	1	0	0			13
14	10	3	0	0	5	4	0	0	0	0			14
15	9	10	0	17	5	1	0	0	0	7			15
16	35	20	4	9	7	2	0	10	2	4			16
17	30	3	20	7	10	0	0	2	1	27			17
18	10	15	13	8	4	0	0	4	0	9			18
19	6	9	12	10	7	9	0	13	0	3			19
20	11	5	8	1	0	3	0	2	1	0			20
21	10	9	12	1	5	5	0	1	9	0			21
22	0	12	5	6	21	0	0	1	0	0			22
23	0	1	16	15	15	0	1	7	0	20			23
24	0	0	7	0	0	1	1	14	0	3			24
25	5	0	10	0	7	0	0	1	0	11			25
26	0	0	10	0	3	1	20	4	0	8			26
27	23	20	26	0	0	0	0	0	0	4			27
28	2	0	39	0	0	9	0	0	0	5			28
29	7		42	0	10	2	0	0	2	35			29
30	0		31	0	0	0	0	0	15	41			30
31	0		90		0		1	0		9			31
Sum.	351	318	420	173	241	62	65	77	64	374			
Annual Total ()													
4.4.3 100 x 1 x 30													

Precipitation		STATION		ELEVATION		UNIT		mm		YEAR		1961	
CAUCA		RIVER, IN THE BASIN OF											
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	0	20	0	25	5	0	10	0	10	5	15	2	1
2	5	10	0	23	0	3	8	10	0	7	10	1	2
3	0	2	0	15	0	0	5	0	6	8	10	0	3
4	0	5	0	10	0	5	0	8	10	5	10	0	4
5	0	7	0	15	2	4	5	10	0	10	20	0	5
6	0	10	0	0	3	10	8	12	0	0	50	2	6
7	0	0	0	0	0	0	12	15	5	0	50	10	7
8	0	0	8	2	0	5	10	15	0	6	18	10	8
9	0	0	12	0	2	6	5	10	5	0	10	15	9
10	3	0	0	2	0	8	10	15	5	5	20	12	10
11	0	0	0	0	5	7	8	18	2	30	10	13	11
12	0	3	5	0	5	5	10	10	0	40	15	12	12
13	0	0	10	2	0	6	10	0	6	10	30	0	13
14	0	0	8	0	15	5	15	8	2	10	20	3	14
15	20	0	7	1	0	3	15	10	0	5	20	0	15
16	15	0	9	8	0	8	10	5	5	0	15	0	16
17	5	0	0	0	8	15	15	5	4	5	15	3	17
18	0	0	10	2	6	0	0	10	0	10	30	0	18
19	0	0	20	5	5	0	5	8	2	6	25	2	19
20	0	0	15	15	15	0	0	10	5	0	0	0	20
21	0	0	0	20	5	8	5	5	6	10	0	0	21
22	4	0	5	40	0	10	6	8	5	10	0	0	22
23	0	0	10	25	0	12	5	6	0	13	0	0	23
24	0	0	8	5	0	5	8	10	0	11	0	0	24
25	8	5	5	5	4	14	10	0	8	7	0	2	25
26	17	3	0	10	0	0	10	4	3	0	0	0	26
27	5	0	0	15	2	10	8	5	5	6	0	6	27
28	3	2	0	5	5	8	10	0	4	5	0	5	28
29	10		3	0	0	6	12	0	6	8	0	3	29
30	10		5	0	5	10	14	10	5	15	2	0	30
31	25		2		0			12		40		10	31
Sum.	130	67	142	250	92	173	249	242	109	287	395	111	
Annual Total (2,247)													
44.3 100 x 1 x 30													

Precipitation		STATION		ELEVATION		UNIT		mm		YEAR			
CAUCA		RIVER, IN THE BASIN OF								1962			
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	10	0	0	6	15	0	0	10	3	25	8	0	1
2	0	0	0	0	18	2	5	8	6	8	18	2	2
3	10	5	0	4	5	5	4	5	0	10	10	3	3
4	5	0	2	0	5	0	6	12	10	5	15	0	4
5	15	0	0	0	10	5	8	7	8	12	10	5	5
6	0	2	8	5	10	2	10	10	4	3	8	4	6
7	0	5	10	4	0	10	5	10	0	0	7	2	7
8	20	10	10	0	0	5	8	8	0	30	12	0	8
9	10	6	8	2	0	10	2	6	0	50	0	5	9
10	10	0	10	5	5	8	0	4	2	30	0	0	10
11	10	5	10	0	8	6	4	5	2	8	2	15	11
12	20	6	0	0	10	10	8	10	0	10	8	20	12
13	5	2	0	0	10	8	10	10	5	0	7	30	13
14	3	1	0	2	20	6	3	40	0	5	10	40	14
15	2	0	3	2	26	5	4	5	1	10	35	45	15
16	0	0	2	0	15	6	5	10	2	3	8	35	16
17	10	2	0	2	0	10	5	10	0	23	12	20	17
18	10	0	2	5	15	0	8	5	5	0	10	15	18
19	20	0	0	0	6	0	10	6	4	5	5	18	19
20	30	3	5	15	5	5	8	1	0	2	15	25	20
21	15	1	18	20	6	3	6	0	2	4	10	30	21
22	20	0	40	20	5	2	0	5	4	2	5	0	22
23	0	0	15	5	8	0	5	5	3	5	6	0	23
24	0	0	15	20	6	0	4	8	0	2	10	0	24
25	0	0	8	10	4	5	6	5	0	0	20	0	25
26	0	0	6	10	10	6	5	6	10	0	10	20	26
27	0	0	2	15	20	8	8	4	0	8	0	25	27
28	0	5	0	20	15	6	5	2	0	10	0	15	28
29	0		2	5	5	0	6	0	10	8	0	2	29
30	0		5	15	0	2	7	0	5	5	0	2	30
31	0				0		5	5		8		0	31
Sum.	225	53	186	192	262	135	170	222	86	291	261	378	
Annual Total (2,461)													
44.3 100 x 1 x 30													

Precipitation													STATION		Purace		ELEVATION		UNIT		mm		YEAR		1963	
CAUCA RIVER, IN THE BASIN OF																										
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE													
1	0	0	0	2	10	10	3	5	0	0	5	5	1													
2	20	1	0	30	5	6	0	0	6	0	15	0	2													
3	0	10	0	14	8	0	2	20	4	0	35	0	3													
4	4	15	0	6	0	0	4	0	4	4	24	5	4													
5	0	0	0	10	15	2	0	2	0	3	30	0	5													
6	0	10	2	20	15	0	2	4	5	2	30	4	6													
7	0	3	0	30	10	0	0	5	4	2	8	0	7													
8	0	2	0	10	10	0	5	6	5	5	20	6	8													
9	15	0	5	4	10	4	3	5	8	0	20	4	9													
10	5	0	10	5	20	10	8	3	10	0	26	0	10													
11	1	36	6	20	10	20	6	2	10	6	30	4	11													
12	10	24	2	6	15	20	2	4	10	5	20	0	12													
13	10	6	0	8	0	30	4	5	8	4	20	5	13													
14	30	0	8	10	8	10	0	6	6	16	10	0	14													
15	0	0	0	10	5	0	30	5	4	30	0	0	15													
16	0	10	0	5	6	2	4	6	7	10	0	0	16													
17	24	25	0	5	8	0	0	5	9	0	10	10	17													
18	6	15	0	20	5	6	2	4	8	0	0	6	18													
19	10	30	4	25	0	2	3	2	5	5	0	0	19													
20	10	0	0	5	0	0	0	5	0	0	0	4	20													
21	0	10	0	4	0	0	5	4	6	4	6	6	21													
22	0	4	0	3	0	0	6	6	0	8	40	6	22													
23	0	6	0	0	4	6	4	0	8	0	15	5	23													
24	0	2	10	2	5	2	3	3	0	3	8	16	24													
25	15	0	5	4	8	4	5	5	8	35	10	10	25													
26	6	5	8	0	5	0	5	4	4	0	0	50	26													
27	15	10	10	0	20	0	4	0	0	4	0	10	27													
28	14	0	0	8	0	5	6	8	2	3	4	10	28													
29	33		2	15	0	0	4	6	0	18	2	40	29													
30	0		0	10	0	4	5	0	8	8	0	16	30													
31	0		0		0		6	0		10		16	31													
Sum.	228	224	72	291	202	143	111	130	149	185	388	238														
													Annual Total (2,361)													
													44.3 100 x 1 x 30													

Precipitation													STATION		Purace		ELEVATION		UNIT		mm		YEAR		1964	
CAUCA RIVER, IN THE BASIN OF																										
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	0	0	0	0	4	10	0	8	10	0	6	15	1													
2	0	0	0	12	2	14	4	6	8	3	4	36	2													
3	0	0	0	4	0	10	4	6	8	4	20	0	3													
4	0	0	0	0	0	18	2	4	4	5	30	4	4													
5	0	0	0	4	10	30	0	0	5	6	12	10	5													
6	0	0	0	10	10	0	6	5	6	2	8	12	6													
7	0	0	2	4	8	4	4	4	1	7	16	9	7													
8	0	0	4	60	2	0	6	6	8	3	20	15	8													
9	0	0	0	10	8	10	8	8	6	0	0	14	9													
10	0	10	0	0	3	20	6	6	6	12	0	12	10													
11	0	15	2	5	4	10	8	7	5	5	3	8	11													
12	0	10	5	10	2	0	5	8	4	6	0	8	12													
13	2	14	4	10	4	6	4	10	6	8	10	8	13													
14	0	8	2	8	4	4	6	12	8	10	12	4	14													
15	0	7	2	12	3	2	5	6	12	10	10	0	15													
16	0	10	4	50	0	0	20	7	14	10	15	0	16													
17	0	18	15	6	5	0	4	4	6	10	14	0	17													
18	0	0	6	8	6	14	5	8	5	10	0	12	18													
19	0	10	0	6	2	10		4	8	13	0	10	19													
20	0	5	2	2	0	16	0	5	0	10	0	30	20													
21	0	0	0	2	0	2	0	8	3	8	8	20	21													
22	0	0	5	4	0	0	0	6	6	12	5	20	22													
23	0	0	0	0	4	0	0	4	10	8	3	10	23													
24	0	0	0	0	8	0	0	8	10	6	8	12	24													
25	0	0	0	8	3	5	2	7	8	12	0	13	25													
26	0	0	0	6	10	6	4	6	6	14	4	20	26													
27	0	0	5	4	5	4	6	4	4	10	5	30	27													
28	0	5	0	0	10	5	5	0	10	6	6	20	28													
29	0	4	20	6	30	4	8	8	15	5	4	8	29													
30	0		10	5	12	0	4	6	10	3	5	10	30													
31	0		6		10		0	10		12		15	31													
Sum.	10	116	94	256	169	204	133	191	212	231	228	395														
													Annual Total (2,219)													
													44.3 100 x 1 x 30													

Precipitation		STATION Durace															
CAUCA		RIVER, IN THE BASIN OF						ELEVATION				UNIT		mm		YEAR 1965	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE				
1	7	0	5	4	6	4	8	0	5	26	10	0	1				
2	5	3	6	3	4	6	6	0	0	5	8	0	2				
3	8	0	8	2	5	4	5	4	4	4	4	0	3				
4	0	0	4	0	6	5	4	8	6	0	0	0	4				
5	0	0	4	10	0	0	8	10	0	0	6	0	5				
6	0	0	2	20	3	6	10	0	0	0	20	0	6				
7	16	0	3	20	8	0	10	5	2	0	20	30	7				
8	18	0	2	20	10	8	0	6	4	0	30	20	8				
9	10	0	5	10	30	6	2	4	0	2	10	90	9				
10	18	0	0	8	10	5	4	0	3	0	8	20	10				
11	4	0	0	18	30	4	10	8	4	6	6	10	11				
12	0	0	3	0	20	5	8	6	5	4	6	28	12				
13	10	0	2	10	15	6	5	5	0	28	10	4	13				
14	4	0	0	20	10	7	6	4	0	8	15	2	14				
15	2	0	2	20	8	8	8	6	15	16	25	0	15				
16	8	0	3	20	6	6	6	0	2	20	50	5	16				
17	5	0	0	5	4	5	8	5	2	40	20	6	17				
18	0	0	0	5	6	4	8	6	0	18	8	4	18				
19	10	10	8	10	8	6	6	8	0	18	50	0	19				
20	20	0	2	2	4	3	20	0	4	8	20	4	20				
21	0	0	1	4	6	6	10	4	5	16	25	0	21				
22	5	0	2	3	5	8	8	6	3	55	20	0	22				
23	0	0	3	4	4	6	6	0	5	0	30	0	23				
24	0	0	0	3	6	4	5	4	6	0	36	0	24				
25	10	0	0	2	6	10	6	6	0	0	10	30	25				
26	12	0	2	4	3	8	2	2	4	14	20	8	26				
27	13	0	0	14	2	5	6	3	3	16	10	6	27				
28	15	0	2	8	4	4	5	5	8	10	20	8	28				
29	16		10	10	4	6	6	6	20	20	10	6	29				
30	8		5	4	5	0	9	0	30	30	8	0	30				
31	4		10		4		4	0		6		6	31				
Sum.	231	13	94	293	242	155	210	121	140	370	515	287					
Annual Total (2,671)																	
4 4 3 100 x 1 x 30																	

Precipitation		STATION Coconuco													
CAUCA		RIVER, IN THE BASIN OF						ELEVATION				UNIT		YEAR 1966	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE		
1	7	0	0	8	9	2	5	0	2	2	15	0	1		
2	3	0	0	4	18	8	0	3	4	5	8	14	2		
3	0	9	0	15	3	0	9	0	8	8	5	58	3		
4	0	0	0	1	25	5	2	0	0	3	16	18	4		
5	0	3	41	3	14	0	1	0	0	28	9	43	5		
6	0	10	28	18	0	4	0	0	0	2	21	81	6		
7	0	13	0	0	0	0	0	0	0	1	16	35	7		
8	0	12	2	13	3	5	2	0	3	10	19	49	8		
9	9	0	15	10	18	0	3	0	5	5	29	78	9		
10	0	0	25	0	0	9	5	0	3	3	8	89	10		
11	0	7	82	5	1	0	3	2	0	21	15	45	11		
12	0	0	7	0	0	3	0	1	0	42	19	75	12		
13	0	11	18	0	8	0	45	3	2	2	25	103	13		
14	0	0	0	0	5	7	13	3	25	8	45	95	14		
15	0	0	0	3	18	0	0	9	15	1	29	74	15		
16	0	0	0	0	8	0	0	0	0	0	8	15	16		
17	0	0	0	0	3	17	0	0	15	9	13	53	17		
18	7	0	0	4	5	3	0	0	3	6	19	58	18		
19	0	0	0	3	2	0	0	0	0	1	53	19	19		
20	0	0	3	0	0	5	0	8	0	0	14	49	20		
21	0	0	7	0	0	8	0	3	3	49	28	117	21		
22	0	0	9	3	0	0	3	1	1	0	1	99	22		
23	0	0	5	9	2	2	0	3	5	8	15	82	23		
24	0	0	0	15	1	9	2	0	0	0	82	2	24		
25	0	0	15	35	0	0	0	0	8	0	3	0	25		
26	0	0	9	19	5	5	0	0	0	0	2	0	26		
27	0	3	2	0	3	0	0	0	2	3	49	3	27		
28	26	0	0	0	0	0	0	0	0	0	15	0	28		
29	0	0	5	0	1	5	0	0	0	0	59	1	29		
30	0		3	0	0	1	0	0	8	0	85	0	30		
31	0		0		0		0	1		0		0	31		
Sum.	52	68	276	168	152	98	93	37	112	217	725	1,357			
Annual Total (3,355)															
4 4 3 100 x 1 x 30															

Precipitation		STATION Purace											YEAR 1967
CAUCA	RIVER, IN THE BASIN OF										ELEVATION	UNIT	mm
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	4	0	4	0	12	8	8	8	10	8	18	0	1
2	0	6	0	6	8	10	10	10	12	20	8	0	2
3	0	10	0	0	20	12	6	9	10	5	10	5	3
4	0	30	0	0	0	20	10	8	0	0	30	0	4
5	0	10	0	0	0	8	9	10	8	6	7	0	5
6	6	8	0	0	4	10	8	0	6	0	0	0	6
7	5	12	0	0	8	8	6	4	0	8	6	0	7
8	4	10	0	0	0	10	4	6	0	10	18	0	8
9	0	20	0	0	0	4	9	10	8	40	24	0	9
10	0	8	4	6	8	0	5	12	10	8	10	0	10
11	0	4	10	8	9	0	6	8	0	9	8	4	11
12	5	10	2	8	10	4	4	10	8	10	12	5	12
13	10	0	38	6	10	8	8	9	0	4	50	0	13
14	8	0	16	8	22	10	10	0	6	6	0	0	14
15	5	0	36	0	12	6	5	0	8	0	12	5	15
16	6	16	48	20	4	0	6	10	9	5	9	0	16
17	2	0	20	36	18	10	0	12	10	4	18	6	17
18	8	0	10	16	6	0	10	10	8	0	40	0	18
19	0	0	8	0	16	0	40	6	6	5	60	0	19
20	0	0	0	0	0	8	0	14	12	10	60	0	20
21	0	0	0	0	0	10	10	0	10	8	50	8	21
22	0	0	0	18	4	8	0	4	8	10	12	10	22
23	0	10	23	10	5	6	8	10	6	0	16	12	23
24	0	6	24	20	8	8	9	8	0	18	20	14	24
25	0	0	0	10	10	4	9	12	0	20	40	20	25
26	10	0	15	10	4	10	10	10	10	10	24	0	26
27	8	0	18	14	5	9	10	10	6	12	30	15	27
28	0	0	80	6	8	6	18	12	8	40	22	8	28
29	6	0	24	0	5	0	12	8	10	4	0	4	29
30	14	0	0	0	8	8	8	15	12	25	4	6	30
31	20	4	0	10	10	10	12	15	15	0	0	0	31
Sum.	121	160	384	202	234	205	268	257	201	320	618	122	
Annual Total (3,092)													

44.3 100 x 1 x 30

Precipitation		STATION Purace											YEAR 1968
CAUCA	RIVER, IN THE BASIN OF										ELEVATION	UNIT	mm
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	0	0	10	0	5	4	0	10	16	4	0	12	1
2	0	16	8	2	4	8	4	10	30	0	0	10	2
3	0	30	10	6	6	6	6	8	0	5	0	12	3
4	4	34	0	4	0	10	5	10	8	0	4	10	4
5	0	8	0	5	4	44	6	6	4	4	3	8	5
6	0	0	0	8	7	8	8	8	5	0	0	6	6
7	5	0	6	6	0	6	10	10	3	6	8	0	7
8	8	0	14	5	20	5	10	8	4	8	10	0	8
9	6	0	0	17	10	0	12	6	0	30	8	0	9
10	4	0	8	90	8	0	16	5	0	10	0	10	10
11	0	0	4	30	8	4	10	0	4	20	10	0	11
12	0	0	0	20	12	5	8	6	3	8	25	0	12
13	8	0	8	30	7	0	6	9	12	4	20	0	13
14	8	0	10	20	9	8	10	10	10	18	24	0	14
15	0	0	20	25	22	5	8	8	0	10	16	0	15
16	0	0	10	0	10	0	10	6	0	5	14	0	16
17	0	8	20	30	8	10	9	9	5	18	8	0	17
18	3	0	5	6	7	0	8	8	16	10	30	0	18
19	0	48	0	0	6	8	10	6	10	20	20	0	19
20	4	18	0	8	0	0	0	8	0	0	10	5	20
21	0	20	5	0	0	6	0	0	0	5	12	10	21
22	4	18	0	10	4	10	4	10	0	6	40	12	22
23	0	20	8	20	6	8	8	9	4	8	20	18	23
24	10	10	8	20	5	7	9	10	6	0	8	16	24
25	2	8	0	0	0	10	10	8	0	10	24	8	25
26	0	0	0	0	6	7	14	9	4	12	10	0	26
27	0	20	4	0	0	0	5	10	10	20	14	7	27
28	4	8	0	6	0	4	8	10	30	40	26	3	28
29	40	0	0	14	10	6	10	10	20	12	20	0	29
30	12	0	0	1	8	0	6	0	0	10	10	0	30
31	24	8	10	10	4	28	0	0	0	0	0	0	31
Sum.	146	266	175	386	202	189	234	255	200	303	404	137	
Annual Total (2,897)													

44.3 100 x 1 x 30

Precipitation STATION Purace													
CAUCA RIVER, IN THE BASIN OF ELEVATION UNIT mm YEAR 1969													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	0	0	0	4	30	0	10	0	0	8	8	0	1
2	0	0	12	0	50	8	8	0	0	12	0	0	2
3	0	0	0	0	12	40	9	4	0	7	0	0	3
4	0	0	0	4	10	8	6	0	0	40	14	10	4
5	0	0	0	5	0	10	6	5	0	10	30	4	5
6	0	0	0	18	0	0	7	2	0	12	50	0	6
7	0	18	0	0	0	4	12	10	8	18	40	16	7
8	0	0	0	4	4	6	13	15	0	10	20	18	8
9	0	0	0	10	8	8	8	0	0	8	9	10	9
10	5	8	0	8	0	7	0	4	9	0	20	0	10
11	7	6	4	20	0	5	6	0	10	20	0	90	11
12	12	16	5	34	0	4	8	6	6	6	0	12	12
13	8	0	4	16	4	0	10	8	8	24	0	0	13
14	3	10	0	28	0	6	12	10	5	40	36	8	14
15	10	12	0	22	0	0	10	8	6	30	5	0	15
16	6	16	8	20	6	0	9	0	0	20	20	0	16
17	7	0	0	18	0	0	13	4	0	0	10	6	17
18	8	0	0	10	0	0	0	0	8	0	12	4	18
19	12	0	0	17	10	0	0	0	15	0	0	0	19
20	5	0	0	0	0	8	0	0	0	4	0	0	20
21	40	0	0	20	6	0	10	5	7	20	14	8	21
22	8	0	0	8	8	0	14	0	8	60	8	3	22
23	20	0	0	12	6	0	8	8	6	50	14	8	23
24	10	14	0	10	0	10	10	0	10	15	0	0	24
25	8	5	0	30	0	12	14	5	20	18	0	0	25
26	5	0	4	8	0	13	0	8	12	6	8	0	26
27	4	4	0	0	5	8	0	0	14	8	5	10	27
28	0	0	10	0	0	9	8	0	30	9	0	20	28
29	0	4	0	0	8	10	12	10	30	0	0	0	29
30	0	0	0	8	7	12	10	0	18	14	0	0	30
31	8	15	0	0	0	0	0	0	6	0	0	0	31
Sum.	186	109	66	334	174	188	233	112	230	475	323	229	
Annual Total (2,659)													
44.3 100 x 1 x 30													

Precipitation STATION Purace													
CAUCA RIVER, IN THE BASIN OF ELEVATION UNIT mm YEAR 1970													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	0	12	20	0	8	7	0	0	0	50	15	0	1
2	0	18	80	0	0	0	0	0	5	40	30	0	2
3	0	14	0	0	0	0	0	0	2	12	38	0	3
4	0	20	8	0	0	10	0	0	0	6	40	2	4
5	0	6	0	2	28	0	0	5	0	5	8	1	5
6	0	10	6	4	0	5	5	4	0	30	20	0	6
7	0	0	0	6	12	0	1	3	3	30	30	0	7
8	0	8	0	5	2	0	0	2	4	13	40	6	8
9	0	6	0	4	0	0	0	2	5	10	20	20	9
10	0	0	0	8	0	0	4	0	0	0	0	0	10
11	8	2	12	6	0	0	5	0	1	0	10	0	11
12	26	0	4	5	8	0	0	2	0	0	10	0	12
13	20	0	6	30	7	6	0	4	0	0	5	10	13
14	18	0	3	14	10	0	0	8	0	0	20	10	14
15	3	0	0	30	10	0	0	0	0	0	15	0	15
16	0	0	0	0	8	2	5	0	0	0	10	0	16
17	20	28	0	0	6	2	0	0	0	0	15	0	17
18	8	4	0	0	20	0	10	0	0	0	10	0	18
19	20	70	0	0	0	0	0	0	0	0	15	30	19
20	12	10	0	0	0	0	0	0	8	10	40	45	20
21	8	0	0	0	0	0	0	0	7	0	10	25	21
22	0	0	0	0	0	2	0	0	0	15	15	20	22
23	0	10	4	0	0	0	0	0	0	10	14	2	23
24	15	12	0	0	3	0	0	0	0	15	10	0	24
25	0	18	6	0	4	0	0	8	0	30	5	0	25
26	0	22	8	0	14	0	0	0	3	8	10	0	26
27	0	10	0	0	18	0	0	6	30	10	18	10	27
28	0	13	0	6	5	0	8	10	0	80	12	0	28
29	0	8	4	0	0	3	4	4	20	19	10	0	29
30	0	0	0	7	2	5	5	0	18	0	0	0	30
31	10	0	0	0	0	0	0	5	18	18	0	0	31
Sum.	168	293	165	131	203	42	53	63	106	411	495	181	
Annual Total (2,311)													
44.3 100 x 1 x 30													

Precipitation													
STATION Paracy													
CAUCA RIVER, IN THE BASIN OF													
ELEVATION													
UNIT mm													
YEAR 1971													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	0		7	15	8	0	0	0	0	0			1
2	0		15	50	0	0	0	0	0	10			2
3	0		12	17	0	0	0	10	0	18			3
4	31		3	0	5	0	0	0	0	10			4
5	18		2	3	45	0	0	0	0	10			5
6	27		0	0	3	10	0	0	0	0			6
7	25		0	2	2	0	5	5	38	0			7
8	17		0	0	5	0	0	2	10	12			8
9	10		0	0	0	0	10	0	0	0			9
10	5		0	12	3	0	0	0	5	18			10
11	3		3	0	8	0	0	0	0	5			11
12	8		0	0	0	10	0	0	0	0			12
13	6		0	0	0	3	0	0	0	3			13
14	2		2	0	14	0	0	0	0	0			14
15	0		0	28	15	0	4	0	0	0			15
16	10		4	25	3	10	0	3	0	0			16
17	20		2	25	18	0	0	0	0	11			17
18	33		13	10	15	5	0	0	0	38			18
19	17		2	0	10	0	0	0	0	10			19
20	25		5	12	0	0	0	0	0	0			20
21	15		0	5	0	0	0	0	8	8			21
22	5		0	30	2	0	0	0	3	5			22
23	0		8	3	40	0	0	10	0	18			23
24	5		5	0	0	0	0	0	0	20			24
25	0		20	0	8	0	0	0	0	22			25
26	0		6	0	3	0	0	10	0	10			26
27	0		4	8	0	1	0	8	0	7			27
28	0		42	25	0	0	0	0	0	2			28
29	0		20	0	0	0	0	4	4	0			29
30	0		20	0	0	5	0	3	0	28			30
31	0		35	0	0	0	0	0	0	15			31
Sum.	282		230	270	207	44	19	55	68	280			
Annual Total ()													
44.3 100 x 1 x 30													

III - 6. HOURLY PRECIPITATION

Gauging Station
Florida

Elevation (m)

Recording Period
Jan. 1961 - Dec. 1968

Precipitation STATION Florida

YEAR 1961

MESES	TOTAL		No. PRECIPITACIONES			CANTIDAD		DURACION			PRECIPITACION MAXIMA					DURACION MAXIMA					PRECIP. MENSUAL	
	mm.	DIAS	DIA	NOCHE	TOTAL	TOTAL DIA mm.	TOTAL NOCHE mm.	DIA H. MIN.	NOCHE N. MIN.	TOTAL H. MIN.	mm.	DURACION H. MIN.	INT. MED mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 1 MIN. mm/MIN.	H. MIN.	mm.	INT. MED mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 1 MIN. mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 10 MIN. mm/MIN.
Enero	149.1	22	35	9	44	145.3	3.8	33:35	4:30	38:05	25.7	2:40	0.16	6.1	1.2	2:40	25.7	0.16	6.1	1.2		
Febrero	120.3	11	16	4	20	90.8	29.5	19:40	6:25	10:05	21.5	2:50	0.13	8.0	1.6	2:50	21.5	0.13	8.0	1.6		
Marzo	145.1	19	37	19	56	85.6	59.5	33:35	17:35	51:10	30.5	5:30	0.09	4.0	0.8	6:30	5.1	0.01	0.5	0.1		
Abril	164.3	17	41	25	66	108.5	55.8	61:40	30:25	92:05	19.6	4:50	0.07	3.0	0.6	8:20	8.5	0.02	0.5	0.1		
Mayo	70.7	13	22	5	27	68.6	2.1	16:15	3:00	19:15	31.1	1:35	0.33	8.0	1.6	8:25	5.7	0.04	1.0	0.2		
Junio	75.7	14	25	7	32	68.4	7.3	24:20	7:00	31:70	16.5	2:50	0.10	5.0	1.0	3:25	4.0	0.02	0.3	0.1		
Julio	65.2	14	22	4	26	60.9	4.3	15:05	4:30	19:35	34.2	1:50	0.31	9.0	1.8	2:05	4.1	0.03	0.9	0.2		
Agosto	5.5	6	9	2	11	5.3	0.2	4:50	50	5:40	3.2	55	0.06	1.4	0.3	55	3.2	0.06	1.4	0.3		
Septiembre	34.1	16	18	7	25	22.4	11.7	14:10	7:05	21:15	8.2	2:55	0.05	3.5	0.2	2:55	8.2	0.05	1.0	0.2		
Octubre	189.4	22	41	17	58	111.7	77.7	42:15	31:50	74:05	38.4	6:40	0.10	9.5	0.6	6:40	38.4	0.10	3.0	0.6		
Noviembre	180.6	28	51	32	83	126.1	154.5	61:00	57:25	118:25	31.0	5:55	0.09	5.0	0.6	8:30	19.5	0.04	0.7	0.1		
Diciembre	226.7	23	38	7	45	209.2	17.4	42:40	12:10	54:50	46.4	1:55	0.40	13.0	2.0	4:40	46.1	0.16	6.5	1.3		
TOTALES	1,426.7	205	355	138	493	1,102.8	423.9	369:05	182:45	551:50	306.3	40:25				51:55	190.0					

Precipitation STATION Florida

YEAR 1962

MESES	TOTAL		No. PRECIPITACIONES			CANTIDAD		DURACION			PRECIPITACION MAXIMA					DURACION MAXIMA					PRECIP. MENSUAL	
	mm.	DIAS	DIA	NOCHE	TOTAL	TOTAL DIA mm.	TOTAL NOCHE mm.	DIA H. MIN.	NOCHE N. MIN.	TOTAL H. MIN.	mm.	DURACION H. MIN.	INT. MED mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 1 MIN. mm/MIN.	H. MIN.	mm.	INT. MED mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 1 MIN. mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 10 MIN. mm/MIN.
Enero	213.8	23	31	14	45	168.0	45.8	35:30	18:35	54:05	25.5	1:50	0.23	7.0	1.4	5:40	7.6	0.02	0.8	0.2	8.8	9.7
Febrero	141.0	18	22	14	36	128.3	12.7	25:20	10:05	35:25	25.4	1:45	0.24	6.0	1.2	2:55	11.3	0.06	2.0	0.2	6.0	10.0
Marzo	169.5	24	50	21	71	133.9	35.6	50:55	31:05	82:00	22.3	3:45	0.10	3.0	0.6	7:10	5.5	0.01	0.2	0.0	4.0	8.0
Abril	164.3	19	34	11	45	151.1	13.2	41:45	9:15	51:00	30.8	3:10	0.16	5.0	1.0	4:00	30.5	0.12	5.5	1.1	6.5	12.5
Mayo	132.9	22	44	13	57	121.0	11.9	46:20	9:40	56:00	17.6	2:30	0.12	9.0	1.8	3:10	16.7	0.08	4.0	0.8	9.0	11.0
Junio	118.7	23	54	15	69	109.9	8.8	40:25	13:35	54:00	26.6	2:45	0.16	9.0	1.8	2:45	26.6	0.16	9.0	1.8	9.0	15.0
Julio	24.3	9	13	2	15	23.0	1.3	8:20	1:35	9:55	13.1	1:55	0.11	2.0	0.4	1:55	13.1	0.11	2.0	0.4	2.0	3.5
Agosto	61.3	10	13	8	21	42.8	18.5	11:10	10:10	21:20	17.7	1:20	0.22	3.0	0.6	2:20	7.9	0.05	1.0	0.2	3.0	5.3
Septiembre	96.2	12	13	8	21	74.9	21.3	11:00	8:55	19:55	28.3	1:40	0.28	7.0	1.4	3:50	16.6	0.07	1.5	0.3	7.0	9.8
Octubre	179.7	23	35	20	55	136.3	43.4	40:30	21:25	61:55	39.6	3:25	0.19	9.5	1.5	5:50	29.4	0.08	5.0	1.0	9.5	19.0
Noviembre	243.0	29	40	19	59	113.3	129.7	47:10	41:00	88:10	40.0	6:45	0.09	6.2	1.2	7:50	32.3	0.06	1.5	0.3	6.2	11.2
Diciembre	272.5	20	43	28	71	205.9	66.6	71:25	37:55	109:20	27.5	5:25	0.08	4.5	0.9	7:30	9.6	0.02	1.0	0.2	5.0	9.0
TOTALES	1,817.2	232	392	173	565	1,408.4	408.8	294:50	213:25	643:05	304.4	36:15				54:45	207.1					

Precipitation

STATION Florida

YEAR 1,963

MESES	TOTAL		No. PRECIPITACIONES			CANTIDAD		DURACION			PRECIPITACION MAXIMA					DURACION MAXIMA					PRECIP. MENSUAL	
	mm.	DIAS	DIA	NOCHE	TOTAL	TOTAL DIA mm.	TOTAL NOCHE mm.	DIA H. MIN.	NOCHE N. MIN.	TOTAL H. MIN.	mm.	DURACION H. MIN.	INT. MED mm/MIN	INT. MAX 5 MIN. mm/MIN	INT. MAX 1 MIN. mm/MIN	H. MIN.	mm.	INT. MED mm/MIN	INT. MAX 5 MIN. mm/MIN	INT. MAX 1 MIN. mm/MIN	INT. MAX 5 MIN. mm/MIN	INT. MAX 10 MIN. mm/MIN
Enero	160.5	22	26	15	41	94.5	66.0	34:10	19:15	53:25	23.9	1:20	0.29	4.4	0.9	4:55	5.1	0.01	0.6	0.1	6.0	9.0
Febrero	283.5	26	40	16	56	210.4	73.1	62:20	27:25	89:45	41.0	5:10	0.13	4.5	0.9	7:35	30.0	0.06	2.5	0.5	7.8	13.9
Marzo	124.8	21	32	11	43	87.6	37.2	32:20	14:25	46:45	33.7	9:30	0.05	3.8	0.7	9:30	33.7	0.05	3.8	0.7	6.0	10.0
Abril	339.7	25	38	20	58	192.2	147.5	51:25	34:50	86:15	40.2	5:25	0.12	9.9	0.6	5:25	40.2	0.12	3.0	0.6	9.9	12.9
Mayo	78.5	18	29	11	40	70.3	8.2	35:55	15:55	51:50	10.2	2:20	0.07	4.0	0.6	3:45	5.6	0.02	0.4	0.1	4.0	4.6
Junio	100.3	12	24	11	35	62.7	37.6	27:05	17:40	44:45	40.9	8:50	0.07	1.8	0.3	8:50	40.9	0.07	1.8	0.4	1.8	3.3
Julio	32.1	12	14	12	26	20.7	11.4	8:05	9:00	17:05	8.1	3:45	0.03	3.3	0.2	3:45	8.1	0.03	1.0	0.2	3.3	5.2
Agosto	16.2	9	13	3	16	15.5	0.7	10:10	1:10	11:20	6.0	3:40	0.02	1.3	0.3	3:40	6.0	0.02	1.3	0.3	1.3	2.2
Septiembre	63.3	12	16	2	18	54.2	9.1	12:25	2:10	14:35	16.2	0:55	0.29	4.0	0.8	1:40	8.9	0.08	1.3	0.3	4.0	6.6
Octubre	167.2	18	17	13	30	84.5	82.7	22:40	27:10	49:50	41.1	7:10	0.09	6.5	1.3	8:25	17.9	0.03	1.0	0.2	6.5	10.0
Noviembre	326.0	29	50	32	82	220.2	105.8	72:15	50:40	122:55	37.9	1:10	0.54	10.5	2.1	11:00	26.8	0.04	1.7	0.3	10.5	14.5
Diciembre	183.4	21	38	10	48	164.1	19.3	42:10	14:45	56:55	25.3	2:50	0.14	4.0	0.8	5:20	7.7	0.02	0.7	0.1	7.0	7.7
TOTALES	1,875.5	225	337	156	493	1,276.9	598.6	411:00	234:25	645:25	324.5	42:05				73:50	230.9					

Precipitation

STATION Florida

YEAR 1,964

MESES	TOTAL		No. PRECIPITACIONES			CANTIDAD		DURACION			PRECIPITACION MAXIMA					DURACION MAXIMA					PRECIP. MENSUAL	
	mm.	DIAS	DIA	NOCHE	TOTAL	TOTAL DIA mm.	TOTAL NOCHE mm.	DIA H. MIN.	NOCHE N. MIN.	TOTAL H. MIN.	mm.	DURACION H. MIN.	INT. MED mm/MIN	INT. MAX 5 MIN. mm/MIN	INT. MAX 1 MIN. mm/MIN	H. MIN.	mm.	INT. MED mm/MIN	INT. MAX 5 MIN. mm/MIN	INT. MAX 1 MIN. mm/MIN	INT. MAX 5 MIN. mm/MIN	INT. MAX 10 MIN. mm/MIN
Enero	72.2	11	14	1	15	71.2	1.0	17:05	1:05	18:10	18.2	5:30	0.01	3.9	4.8	5:30	18.2	0.01	3.9	0.8	3.9	5.4
Febrero	88.3	15	23	10	33	59.1	29.2	27:15	14:05	41:10	19.0	5:20	0.01	1.0	0.2	5:20	19.0	0.01	1.0	0.2	7.0	5.0
Marzo	51.1	7	6	6	12	22.1	29.0	5:50	8:15	14:05	26.8	4:05	0.01	4.0	0.8	4:05	26.8	0.10	4.0	0.8	4.0	7.1
Abril	199.1	24	44	21	65	138.6	60.5	64:05	28:55	93:00	39.9	14:40	0.01	2.1	0.4	14:40	39.9	0.01	2.1	0.4	3.9	6.6
Mayo	126.5	17	30	8	38	98.1	28.4	28:10	7:55	36:05	39.5	2:30	0.26	6.5	1.3	2:50	4.7	0.01	0.5	0.1	6.5	11.0
Junio	176.7	25	53	14	67	132.0	44.7	39:35	15:50	55:25	35.9	2:40	0.22	7.3	1.4	3:30	18.7	0.08	1.3	0.2	9.5	15.7
Julio	68.2	19	29	4	33	65.8	2.4	14:55	3:40	18:35	13.2	0:35	0.30	8.5	1.7	1:35	1.1	0.01	0.2	0.0	8.5	11.0
Agosto	43.4	14	31	3	34	42.9	0.5	19:35	1:25	21:00	11.0	2:30	0.01	1.0	0.2	2:30	11.0	0.01	1.0	0.2	1.0	2.0
Septiembre	53.9	15	24	7	31	50.2	3.7	13:35	5:10	18:45	13.3	1:00	0.21	5.0	1.0	1:55	2.0	0.01	0.3	0.1	5.0	7.0
Octubre	149.6	23	44	13	57	107.4	47.2	43:40	13:45	57:25	20.0	3:45	0.01	3.0	0.6	8:20	10.0	0.02	0.8	0.2	7.0	12.5
Noviembre	241.4	24	42	13	55	223.3	18.1	70:30	9:25	79:55	23.1	2:10	0.17	7.0	1.4	5:20	22.0	0.06	2.0	0.4	7.0	9.0
Diciembre	286.3	26	50	28	78	233.5	52.8	62:05	32:20	94:25	38.6	3:30	0.18	5.0	1.0	8:10	21.4	0.04	1.0	0.2	6.0	9.5
TOTALES	1,556.7	220	390	128	518	1,239.2	317.5	406:10	150:50	557:00	298.5	48:15				63:45	194.8					

Precipitation STATION Florida

YEAR 1965

MESES	TOTAL		No. PRECIPITACIONES			CANTIDAD		DURACION			PRECIPITACION MAXIMA					DURACION MAXIMA					PRECIP. MENSUAL	
	mm.	DIAS	DIA	NOCHE	TOTAL	TOTAL DIA mm.	TOTAL NOCHE mm.	DIA H. MIN.	NOCHE N. MIN.	TOTAL H. MIN.	mm.	DURACION H. MIN.	INT. MED mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 1 MIN. mm/MIN.	H. MIN.	mm.	INT. MED mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 1 MIN. mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 10 MIN. mm/MIN.
Enero	157.1	24	30	18	48	107.7	47.4	31:55	20:35	52:30	23.7	1:55	0.21	7.0	1.4	5:30	11.2	0.03	0.6	0.1	7.0	9.5
Febrero	33.7	12	12	10	13	32.3	1.4	13:45	1:45	15:30	12.3	1:15	0.16	5.0	1.0	2:85	3.9	0.03	0.6	0.1	5.0	0.5
Marzo	72.7	19	23	8	31	65.9	6.8	15:40	8:30	24:10	21.6	0:55	0.39	7.0	1.4	3:10	3.6	0.02	0.4	0.1	7.0	10.1
Abril	147.2	27	42	27	69	100.8	46.4	43:50	30:40	74:30	18.7	1:50	0.17	6.1	1.2	5:35	7.9	0.02	0.9	0.2	0.1	9.1
Mayo	70.9	17	27	5	32	65.3	5.6	24:55	7:25	32:20	30.4	3:00	0.17	3.2	0.6	3:25	5.5	0.03	0.4	0.1	6.0	9.0
Junio	1.2	3	3	0	3	1.2	0.0	1:25	0:00	1:25	0.7	0:20	0.04	0.5	0.1	0:40	0.3	0.01	0.2	0.0	0.5	0.6
Julio	6.7	3	1	3	4	0.3	6.4	0:15	4:20	4:35	6.1	3:35	0.03	0.7	0.1	3:35	6.1	0.03	0.7	0.1	0.7	1.0
Agosto	25.7	4	6	4	10	20.9	4.8	7:15	5:45	13:00	12.0	1:35	0.13	4.7	0.9	3:40	2.5	0.01	0.2	0.0	4.7	6.7
Septiembre	154.7	14	22	3	25	122.5	32.2	19:30	4:35	24:05	29.7	2:35	0.19	7.5	1.5	3:00	27.4	0.15	4.2	0.8	8.4	10.5
Octubre	289.1	23	28	18	46	215.9	73.2	45:20	20:15	65:35	40.9	1:10	0.58	10.2	2.0	6:35	16.9	0.04	3.0	0.6	10.2	10.4
Noviembre	310.8	28	58	29	87	207.9	102.9	65:20	37:15	102:35	47.9	2:55	0.27	6.0	1.2	9:30	24.2	0.04	1.5	0.3	6.0	10.2
Diciembre	214.6	20	34	27	61	124.3	90.3	32:40	38:35	71:15	35.2	2:30	0.23	9.6	1.9	9:05	27.3	0.05	1.5	0.3	9.6	11.6
TOTALES	1,484.4	194	286	143	429	1,068.0	419.4	301:50	179:40	481:30	279.2	23:35				56:10	136.8					

Precipitation STATION Florida

YEAR 1966

MESES	TOTAL		No. PRECIPITACIONES			CANTIDAD		DURACION			PRECIPITACION MAXIMA					DURACION MAXIMA					PRECIP. MENSUAL	
	mm.	DIAS	DIA	NOCHE	TOTAL	TOTAL DIA mm.	TOTAL NOCHE mm.	DIA H. MIN.	NOCHE N. MIN.	TOTAL H. MIN.	mm.	DURACION H. MIN.	INT. MED mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 1 MIN. mm/MIN.	H. MIN.	mm.	INT. MED mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 1 MIN. mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 10 MIN. mm/MIN.
Enero	10.2	8	10	2	12	10.0	0.2	7:05	0:30	7:35	2.8	0:40	0.07	1.0	0.1	2:00	1.8	0.02	0.7	0.1	1.0	1.8
Febrero	94.4	11	22	10	32	49.8	44.6	19:25	11:40	31:05	38.1	4:10	0.15	4.0	0.8	4:10	38.1	0.15	4.0	0.8	4.0	7.5
Marzo	112.7	16	18	6	24	101.5	11.2	35:10	5:45	40:55	49.4	13:30	0.06	2.5	0.5	13:30	49.4	0.06	2.6	0.5	7.1	7.9
Abril	130.0	15	18	11	29	67.6	62.4	26:50	18:55	45:45	31.6	3:45	0.14	4.1	0.8	6:45	16.8	0.04	2.0	0.4	4.1	6.3
Mayo	219.7	22	38	12	50	134.0	85.7	34:50	16:50	51:40	46.9	4:00	0.20	7.2	1.4	4:50	23.8	0.08	5.1	1.0	7.2	8.8
Junio	155.8	19	29	11	40	133.7	22.1	33:30	13:00	46:30	44.2	2:10	0.34	9.7	1.9	3:50	3.5	0.02	0.3	0.1	9.7	17.9
Julio	27.1	14	16	8	24	23.0	4.1	12:30	6:05	18:25	4.8	0:45	0.11	1.6	0.3	2:15	1.7	0.01	0.1	-	1.6	2.8
Agosto	70.3	13	21	8	29	48.3	22.0	12:00	9:45	21:45	16.5	0:45	0.37	6.2	1.2	2:20	7.9	0.06	1.5	0.3	6.2	10.3
Septiembre	(25.8)	(8)	(16)	(-)	(16)	(25.8)	(0.0)	7:45	(00:00)	(7:45)	(8.1)	(0:55)	(0.15)	(3.5)	(0.7)	(1:05)	(2.7)	0.04	(1.4)	(0.3)	(3.5)	(4.0)
Octubre	343.0	27	38	22	60	274.2	68.8	42:00	27:05	69:05	90.2	3:10	0.47	10.2	2.0	4:00	56.1	0.23	5.0	1.0	10.2	18.4
Noviembre	403.2	29	45	39	84	230.7	172.5	51:20	53:00	104:20	44.5	1:50	0.40	9.2	1.8	6:35	9.6	0.02	0.5	0.1	9.2	15.2
Diciembre	408.4	27	51	35	86	207.8	200.6	56:20	61:40	118:00	31.4	6:55	0.08	9.3	1.8	6:55	31.4	0.08	9.3	1.0	13.0	15.3
TOTALES	2,000.6	209	322	164	486	1,306.4	694.2	338:35	224:15	562:50	408.5	42:35				58:15	242.8					

Precipitation

STATION Florida

YEAR 1967

MESES	TOTAL		No. PRECIPITACIONES			CANTIDAD		DURACION			PRECIPITACION MAXIMA					DURACION MAXIMA					PRECIP. MENSUAL	
	mm.	DIAS	DIA	NOCHE	TOTAL	TOTAL DIA mm.	TOTAL NOCHE mm.	DIA H. MIN.	NOCHE N. MIN.	TOTAL H. MIN.	mm.	DURACION H. MIN.	INT. MED mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 1 MIN. mm/MIN.	H. MIN.	mm.	INT. MED mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 1 MIN. mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 10 MIN. mm/MIN.
Enero	125.4	17	23	1	24	111.0	14.4	18:45	2:50	21:35	34.0	1:35	0.36	17.5	3.5	3:05	18.8	0.10	2.0	0.4	17.5	21.6
Febrero	175.4	20	39	12	51	151.3	24.1	40:05	11:35	51:40	31.3	1:35	0.33	9.5	1.9	3:45	6.7	0.03	0.5	0.1	9.5	17.0
Marzo	231.2	20	22	14	36	151.7	79.5	23:48	23:40	47:20	53.2	2:35	0.34	10.2	2.0	6:50	16.5	0.04	0.8	0.2	10.2	17.2
Abril	161.3	16	22	9	31	97.0	70.3	29:10	13:45	42:55	49.9	2:35	0.32	10.5	2.1	5:00	6.6	0.02	0.5	0.1	10.2	16.0
Mayo	94.2	21	39	13	52	57.5	36.7	27:20	16:00	43:70	19.4	3:25	0.09	4.0	0.8	3:55	8.8	0.04	0.5	0.1	6.5	7.5
Junio	77.0	15	25	6	31	60.5	16.5	22:55	14:10	37:05	12.9	3:20	0.06	1.5	0.3	9:40	12.5	0.02	1.0	0.2	4.5	7.0
Julio	47.9	13	19	3	22	45.9	2.0	10:50	2:35	13:25	22.4	0:45	0.50	7.0	1.4	2:05	1.8	0.01	0.6	0.1	7.0	13.3
Agosto	5.8	7	8	2	10	5.4	0.4	4:00	55	4:55	1.9	0:20	0.10	0.9	0.2	1:10	1.9	0.03	0.5	0.1	0.9	1.7
Septiembre	76.9	12	14	6	20	54.8	22.1	10:45	9:35	20:20	20.2	7:40	0.04	1.0	0.2	7:40	20.2	0.04	1.0	0.2	9.0	12.0
Octubre	222.3	20	36	19	55	126.1	96.2	38:50	31:15	70:05	34.4	5:40	0.10	7.5	1.5	6:05	11.2	0.03	1.0	0.2	7.6	9.6
Noviembre	466.0	25	41	28	69	336.4	129.6	72:00	43:20	115:20	79.4	8:50	0.15	10.3	2.1	9:20	27.2	0.05	2.5	0.5	10.3	14.5
Diciembre	205.6	19	35	25	60	120.8	84.8	29:50	20:05	49:55	49.2	1:50	0.45	11.0	2.2	3:25	29.3	0.14	5.5	1.1	11.0	19.5
TOTALES	1,889.0	205	323	138	461	1,312.4	576.6	328:10	189:45	517:55	408.2	40:10				62:00	161.5					

Precipitation

STATION Florida

YEAR 1968

MESES	TOTAL		No. PRECIPITACIONES			CANTIDAD		DURACION			PRECIPITACION MAXIMA					DURACION MAXIMA					PRECIP. MENSUAL	
	mm.	DIAS	DIA	NOCHE	TOTAL	TOTAL DIA mm.	TOTAL NOCHE mm.	DIA H. MIN.	NOCHE N. MIN.	TOTAL H. MIN.	mm.	DURACION H. MIN.	INT. MED mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 1 MIN. mm/MIN.	H. MIN.	mm.	INT. MED mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 1 MIN. mm/MIN.	INT. MAX 5 MIN. mm/MIN.	INT. MAX 10 MIN. mm/MIN.
Enero	255.0	15	21	15	36	160.3	94.7	24:40	25:55	50:35	45.5	1:45	0.43	7.0	2.0	6:20	31.6	0.08	2.0	0.4	7.0	8.5
Febrero	152.2	17	38	11	49	87.5	64.7	34:25	23:50	58:15	21.2	4:10	0.08	2.5	0.5	6:00	14.3	0.04	0.9	0.2	4.0	5.0
Marzo	131.7	15	30	21	51	68.8	63.5	24:00	22:40	46:40	22.8	4:25	0.09	2.5	0.5	4:25	22.8	0.09	2.5	0.5	3.1	5.1
Abril	307.9	22	35	12	47	208.8	99.1	42:00	41:40	83:40	33.3	0:50	0.67	7.5	1.5	12:10	23.9	0.03	1.5	0.3	10.2	11.5
Mayo	111.9	20	26	11	37	66.4	45.5	17:00	13:40	30:40	34.0	1:30	0.38	7.0	1.4	5:05	5.7	0.02	0.5	0.1	7.0	11.0
Junio	134.2	21	29	14	43	104.0	30.2	26:10	19:15	45:25	40.3	19:45	0.03	4.2	0.8	19:45	40.3	0.03	4.2	0.8	6.0	8.0
Julio	41.9	11	16	11	17	40.8	1.1	11:00	55	11:55	11.4	1:35	0.12	3.0	0.6	1:35	11.4	0.12	3.0	0.6	3.0	4.8
Agosto	38.8	10	13	6	19	13.8	25.0	6:55	10:35	17:30	16.5	4:15	0.06	2.0	0.4	5:10	7.9	0.02	0.5	0.1	2.5	3.0
Septiembre	118.3	18	27	5	32	106.6	11.7	23:40	5:00	28:40	35.4	1:10	0.50	10.2	2.0	3:35	3.9	0.02	0.3	0.1	10.2	14.4
Octubre	303.5	24	43	22	65	194.2	109.3	51:55	43:20	95:15	45.0	4:25	0.17	3.7	0.7	6:40	13.9	0.03	2.0	0.4	10.1	14.2
Noviembre	262.4	24	36	30	66	166.5	95.9	53:20	43:05	96:25	30.4	2:55	0.17	6.0	1.2	6:40	27.4	0.07	3.0	0.6	6.0	10.0
Diciembre	200.2	19	25	6	31	162.4	37.8	31:50	8:20	40:10	46.0	4:05	0.09	6.0	1.2	4:40	29.1	0.10	3.1	0.6	6.0	10.0
TOTALES	2,058.0	216	339	154	493	1,379.5	678.5	346:55	258:15	605:10	381.8	50:50				82:05	232.2					

III - 7. DAILY TEMPERATURE

<u>Gauging Station</u>	<u>Elevation (m)</u>	<u>Recording Period</u>
(1) Popayan	1,730	Jan. 1961 - Dec. 1971

Temperature (At 13 O'clock) STATION Popayan													
RIVER, IN THE BASIN OF				ELEVATION 1,730m				UNIT		°C		YEAR 1962	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	22.5	22.5	22.5	21.5	21.5	25.5	24.0	25.0	25.0	22.0	23.3	21.0	1
2	22.0	22.0	23.0	20.0	20.3	23.0	23.0	24.0	28.5	22.5	23.0	24.0	2
3	23.0	23.0	23.5	21.0	22.0	22.8	22.5	27.5	28.0	24.8	17.5	23.3	3
4	21.0	22.5	22.5	21.5	22.5	22.0	22.0	24.0	23.5	23.7	23.0	26.0	4
5	24.0	23.0	18.0	22.0	23.0	20.5	23.5	24.5	21.5	23.0	22.0	24.0	5
6	23.0	22.0	20.0	21.5	22.4	19.5	25.0	20.5	22.0	24.0	23.0	22.0	6
7	22.0	20.0	17.0	22.0	23.0	23.5	25.5	22.0	27.3	20.0	20.0	22.0	7
8	22.0	21.0	21.5	20.0	21.0	20.5	24.0	22.0	24.0	24.0	22.5	23.0	8
9	22.0	21.5	21.0	22.0	22.0	22.0	27.0	21.0	19.5	22.0	23.0	22.3	9
10	20.5	22.0	22.0	22.5	17.5	20.5	23.5	21.0	26.0	20.0	22.0	22.0	10
11	22.0	19.0	21.5	22.0	22.0	20.0	25.5	22.0	23.5	21.5	23.0	21.0	11
12	19.0	20.0	23.0	23.5	20.0	21.5	24.0	21.5	26.0	22.4	22.0	21.5	12
13	22.0	22.0	20.0	23.0	24.8	20.0	22.5	23.0	24.5	24.0	23.0	22.5	13
14	21.0	23.0	21.0	22.0	21.0	21.5	23.0	19.5	23.5	16.0	21.0	19.0	14
15	21.5	19.0	19.5	24.5	22.5	21.5	19.0	25.0	23.8	17.8	20.0	22.5	15
16	20.5	21.0	22.0	21.5	21.5	19.0	24.5	23.0	23.0	18.5	21.0	21.5	16
17	22.0	20.5	22.0	23.5	20.0	21.5	25.0	22.5	21.0	22.2	18.5	19.5	17
18	21.0	21.0	22.5	24.5	20.5	23.0	24.5	22.0	23.5	21.5	22.5	21.0	18
19	23.0	23.5	20.0	20.0	19.5	24.5	20.5	24.5	24.0	20.3	22.0	16.0	19
20	23.0	22.5	21.5	21.0	19.0	22.0	24.0	24.5	26.0	24.0	24.0	21.5	20
21	22.0	22.5	19.0	20.3	24.0	20.0	25.5	26.0	16.0	25.0	18.0	27.5	21
22	24.0	24.0	22.0	19.0	26.5	23.5	22.5	25.5	22.5	22.5	22.0	21.5	22
23	23.0	24.0	19.0	21.0	22.0	27.4	24.0	23.0	25.0	24.0	22.5	22.0	23
24	22.0	23.0	16.2	21.5	21.5	21.0	21.0	24.5	27.0	23.5	21.5	23.5	24
25	23.0	23.5	20.0	20.0	19.0	21.0	19.3	23.5	26.7	24.0	21.0	22.0	25
26	22.0	24.0	20.5	21.0	17.5	18.5	22.0	23.0	26.0	25.6	17.5	23.0	26
27	22.0	23.0	22.5	22.5	21.5	19.0	23.0	24.0	22.6	23.5	22.0	23.0	27
28	21.0	20.0	22.5	20.5	22.0	20.0	22.0	21.6	24.0	24.5	23.0	25.0	28
29	20.0	22.5	22.0	24.0	24.0	23.0	21.5	23.0	21.5	21.0	23.0	22.5	29
30	21.5		22.5	22.5	24.5	20.0	24.0	22.5	22.0	23.5	21.0	24.0	30
31	23.0		21.5		24.5		26.5	22.0		20.5			31
Average	21.0	22.9	21.0	21.7	21.7	21.5	23.4	23.0	24.0	22.4	21.6	22.1	
Annual Total ()										44.3 100 x 1 x 30			

Temperature (At 13 O'clock) STATION Popayan													
RIVER, IN THE BASIN OF				ELEVATION 1,730m				UNIT		°C		YEAR 1963	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	23.1	21.0	22.5	22.0	24.0	24.5	25.5	19.0	20.0	23.5	23.0	22.5	1
2	24.0	23.0	23.5	23.5	21.5	22.0	22.0	20.0	27.0	24.0	22.5	22.5	2
3	22.0	18.0	22.0	23.0	24.0	24.0	26.3	23.0	28.0	25.5	21.0	22.0	3
4	21.5	20.0	20.0	19.5	24.0	22.5	27.0	25.0	27.0	26.0	23.0	19.0	4
5	21.5	19.0	23.5	22.0	24.0	25.5	24.5	23.5	25.5	25.5	21.0	23.0	5
6	23.5	21.0	22.5	20.0	19.0	27.0	24.0	24.0	24.0	28.0	18.0	23.0	6
7	21.0	21.5	24.0	21.0	19.0	26.5	24.0	20.0	24.0	21.1	21.0	22.0	7
8	22.5	21.0	20.0	23.0	22.0	25.0	22.0	20.5	21.5	22.0	23.0	23.0	8
9	20.0	22.0	21.0	23.0	22.5	22.0	22.0	24.0	22.5	24.5	23.0	23.0	9
10	18.0	20.0	22.0	25.0	18.5	20.0	18.0	23.5	24.0	24.0	24.0	27.5	10
11	20.0	18.0	22.5	20.0	23.0	19.5	21.0	25.0	26.0	26.0	21.0	25.0	11
12	22.5	22.0	18.0	22.8	23.5	20.0	21.0	26.0	24.0	23.0	22.0	24.0	12
13	22.0	24.5	21.0	23.0	20.0	19.5	22.0	30.0	26.0	23.0	20.0	23.0	13
14	22.5	23.5	22.0	23.0	22.0	20.0	23.0	25.0	26.0	25.0	21.0	22.8	14
15	21.0	24.5	24.0	23.5	20.5	22.0	22.5	21.0	22.0	19.0	21.5	22.9	15
16	20.8	23.5	21.0	23.5	23.0	21.0	18.0	24.3	29.0	19.0	22.0	23.0	16
17	21.0	22.5	23.0	22.5	20.0	25.0	25.0	23.5	21.3	20.0	25.0	22.0	17
18	18.0	20.0	20.0	21.0	25.5	24.0	25.0	25.0	23.0	23.0	23.5	22.5	18
19	20.0	17.5	22.5	24.0	24.0	24.5	25.2	22.0	23.0	26.0	22.0	22.5	19
20	23.0	20.0	21.0	21.0	23.5	25.0	26.0	22.5	23.0	24.0	21.0	21.5	20
21	21.5	21.0	21.0	23.5	24.5	24.5	23.0	25.0	24.0	25.5	23.0	24.0	21
22	22.5	19.0	21.5	23.5	26.5	25.5	23.5	23.5	21.0	26.0	20.7	22.0	22
23	23.0	20.5	22.8	26.0	24.5	24.0	20.5	22.0	23.5	25.2	22.0	21.0	23
24	23.5	21.0	17.0	20.5	24.5	24.0	23.5	24.5	23.0	23.0	21.8	21.5	24
25	21.0	21.5	22.5	23.0	23.0	25.5	23.0	27.5	24.0	24.5	23.0	20.0	25
26	22.0	19.0	22.0	25.5	25.0	23.0	21.0	28.0	24.0	22.0	21.5	21.5	26
27	21.7	21.5	23.0	22.0	23.0	23.5	23.5	25.0	25.5	23.0	21.0	22.0	27
28	20.5	21.0	21.5	21.0	23.0	22.0	23.0	25.0	26.5	21.0	22.0	23.5	28
29	22.5		23.5	20.0	25.0	23.5	24.5	30.0	21.0	24.5	24.0	21.0	29
30	21.0		23.0	22.0	26.0	23.0	24.0	29.5	25.0	22.0	23.5	20.8	30
31	21.1		24.0		21.0		21.5	26.5		19.0		22.0	31
Average	21.6	20.9	21.8	22.4	22.9	23.3	23.1	24.3	24.5	23.5	22.0	22.4	
Annual Total ()										44.3 100 x 1 x 30			

Temperature (At 13 O'clock)													STATION		Popayan		
RIVER, IN THE BASIN OF				ELEVATION				1,730m		UNIT		°C		YEAR		1964	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE				
1	20.0	23.0	24.5	21.5	23.5	22.0	20.0	24.5	22.0	23.0	21.0	23.5	1				
2	23.0	24.0	22.5	25.0	24.0	19.5	20.5	25.0	19.5	21.3	19.0	22.6	2				
3	23.0	23.0	22.8	19.5	22.5	22.5	22.5	20.5	22.0	25.0	17.5	24.0	3				
4	23.0	23.7	26.0	23.0	24.5	23.0	24.5	25.0	21.0	27.0	19.0	20.0	4				
5	23.4	23.0	23.5	22.0	23.0	23.0	24.0	25.0	21.0	26.0	18.5	22.0	5				
6	22.8	23.5	23.5	20.0	21.0	17.0	22.5	24.0	20.0	19.0	21.0	22.0	6				
7	23.5	23.0	24.0	17.5	21.0	21.0	23.5	23.5	23.0	21.0	21.5	22.0	7				
8	25.0	23.5	22.0	21.0	23.0	19.5	21.0	23.0	23.0	22.5	19.0	23.0	8				
9	22.5	24.0	23.0	18.5	19.5	21.0	23.0	23.5	21.0	22.0	24.5	22.0	9				
10	23.0	23.0	25.0	21.0	22.0	22.0	23.5	23.0	21.0	21.5	24.0	18.0	10				
11	23.5	21.0	23.0	23.3	22.0	19.0	22.0	23.5	22.0	19.0	22.5	19.5	11				
12	24.0	21.0	22.0	21.0	24.0	22.0	22.5	22.0	23.0	21.0	22.0	21.0	12				
13	23.5	21.0	22.0	19.5	25.1	20.0	23.0	22.0	27.0	21.0	22.0	20.5	13				
14	23.4	21.0	24.5	23.0	23.0	19.0	20.0	21.0	23.5	21.3	21.0	21.0	14				
15	23.0	22.0	22.5	22.3	25.0	21.0		22.0	23.0	19.0	22.0	21.5	15				
16	24.0	21.0	19.5	18.0	28.0	21.7	22.0	20.0	22.0	23.0	17.8	21.0	16				
17	22.5	22.0	23.0	20.5	22.5	22.0	16.0	20.0	23.0	21.0	18.5	23.5	17				
18	23.5	23.0	21.0	20.0	23.0	23.0	20.0	22.0	22.5	22.0	21.6	22.0	18				
19	25.0	22.0	23.0	22.8	23.5	21.0	21.0	22.5	23.4	20.0	22.0	21.0	19				
20	24.0	19.0	22.0	21.0	22.0	20.0	21.0	21.5	24.0	21.0	25.4	21.0	20				
21	22.5	21.5	23.0	23.5	21.0	21.0	21.0	19.5	26.0	22.0	23.0	20.0	21				
22	23.0	22.8	23.0	23.5	20.0	17.0	18.0	21.5	26.5	22.0	22.8	17.0	22				
23	25.0		23.0	22.0	22.5	22.0	20.0	20.0	23.0	20.0	21.5	21.0	23				
24	23.0	24.0	23.0	22.0	19.0	22.2	23.5	21.0	23.5	21.0	21.6	20.5	24				
25	23.0	24.5	23.0	20.0	23.5	22.0	22.0	20.5	20.0	24.0	22.0	18.0	25				
26	22.0	22.5	24.5	19.0	22.0	24.7	25.0	19.0	20.5	22.5	23.6	21.0	26				
27	21.8	24.3	20.0	24.0	20.0	17.5	23.0	21.3	21.0	21.0	21.5	21.0	27				
28	23.0	22.5	23.0	24.0	22.0	25.0	20.5	23.0	23.0	20.0	22.4	20.0	28				
29	22.5	23.5	23.0	22.0	22.5	22.0	24.0	23.5	23.5	17.0	22.2	22.5	29				
30	24.0		20.0	22.5	21.0	19.0	21.5	19.0	16.0	23.5	23.0	22.0	30				
31	23.5		20.0		19.0		22.5	23.0		22.0		22.5	31				
Average	23.2	22.6	22.7	21.1	22.4	21.0	21.8	22.2	22.3	21.6	21.4	21.2					
Annual Total ()																	
44.3 100 x 1 x 30																	

Temperature (At 13 O'clock) STATION Popayan													
RIVER, IN THE BASIN OF						ELEVATION		1,730m UNIT		°C		YEAR 1965	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	NO	Dec.	DATE
1	20.5	22.0	24.0	20.0	23.0	24.0	24.5	23.5	24.5	19.0	25.0	23.5	1
2	21.0	22.0	24.4	21.5	22.5	24.5	22.0	28.0	25.5	23.0	23.0	23.5	2
3	20.5	22.5	23.5	18.0	23.5	24.5	21.0	26.0	22.5	22.5	22.0	23.0	3
4	22.0	22.0	22.0	21.5	24.5	24.0	23.5	24.0	18.0	22.5	23.5	23.3	4
5	22.0	22.5	23.0	22.5	26.5	24.0	21.0	25.0	22.5	26.0	22.0	22.0	5
6	22.0	23.5	22.0	20.0	23.0	26.5	20.0	25.5	24.5	25.5	21.0	23.5	6
7	22.0	22.5	20.5	23.0	21.5	24.5	25.0	18.5	24.5	24.0	19.5	18.0	7
8	21.5	22.0	23.5	22.0	21.5	23.0	27.0	24.5	24.0	24.5	17.5	22.0	8
9	21.5	24.0	23.5	17.0	22.0	21.0	25.0	24.5	27.5	22.0	20.0	22.0	9
10	21.0	23.0	22.0	22.5	21.5	22.5	25.5	23.5	21.0	23.0	24.5	22.0	10
11	21.2	22.5	23.5	20.5	22.0	21.5	23.5	24.5	22.0	18.0	26.0	23.5	11
12	22.0	23.0	22.5	19.5	16.0	23.0	26.0	22.5	28.0	22.0	23.5	22.5	12
13	18.0	22.0	20.0	21.5	22.0	26.4	29.0	24.5	26.5	25.5	22.0	22.0	13
14	22.0	21.0	22.5	21.0	23.0	24.5	22.0	24.5	22.0	19.0	23.0	24.0	14
15	20.5	22.0	23.5	18.0	24.0	21.5	24.0	24.5	22.5	25.0	21.0	22.0	15
16	20.0	29.0	22.0	20.8	20.5	24.0	24.0	24.2	26.0	21.5	20.5	24.5	16
17	19.0	23.0	22.0	21.0	24.0	25.5	27.0	21.0	23.0	21.5	24.0	22.0	17
18	21.1	24.5	22.0	23.0	24.7	25.0	29.0	19.0	25.5	23.0	23.0	24.0	18
19	21.0	20.0	21.0	21.5	25.0	26.0	26.5	19.0	27.0	23.5	19.5	23.0	19
20	22.5	23.5	21.0	19.5	18.0	26.5	26.0	22.6	25.5	23.0	20.0	23.5	20
21	21.5	22.5	20.0	21.0	23.0	23.5	23.5	24.5	26.0	22.8	22.5	24.0	21
22	21.5	23.0	21.0	21.5	22.5	23.5	24.0	25.0	24.0	24.0	22.5	27.0	22
23	22.0	23.5	25.0	23.0	22.0	26.0	23.5	26.0	24.5	22.5	22.0	23.5	23
24	22.0	25.5	21.0	19.5	25.0	23.5	27.0	26.0	24.0	24.5	21.5	22.5	24
25	20.5	24.5	24.5	17.0	24.5	24.5	25.5	24.5	23.5	22.5	20.5	22.0	25
26	21.5	25.0	23.5	22.0	21.0	24.0	25.0	26.5	21.0	20.0	21.0	23.0	26
27	21.5	24.5	23.0	22.0	21.5	23.5	29.5	25.5	19.0	21.5	23.0	22.0	27
28	21.5	25.0	20.0	18.5	21.5	22.0	22.5	26.0	20.5	22.0	21.0	22.0	28
29	22.5		22.5	20.5	20.0	22.7	23.0	23.5	24.0	23.5	22.5	19.5	29
30	21.3		24.5	20.5	20.5	22.5	25.5	23.5	22.0	24.5	23.5	20.0	30
31	19.0		28.5		22.0		21.0	22.0		14.5		22.0	31
Average	21.2	23.3	22.6	20.7	22.3	23.9	24.6	24.1	23.7	22.5	22.0	22.6	
Annual Total ()													
41.3 100 x 1 x 30													

Temperature (At 13 O'clock) STATION Popayan													
RIVER, IN THE BASIN OF				ELEVATION		1,730m		UNIT		°C		YEAR 1966	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	21.5	25.0	22.5	24.0		21.0	25.0	24.5	21.0	20.0	22.5	23.0	1
2	23.5	25.5	22.5	22.0	22.0	22.7	24.5	27.5	25.0	19.5	19.0	22.0	2
3	22.0	23.0	22.0	22.5	23.0	23.5	24.0	24.0	19.5	18.0	24.5	21.5	3
4	22.5	22.0	24.5	24.3	24.5	24.5	24.0	22.5	25.0	24.0	23.5	19.0	4
5	24.0	22.5	24.0	23.5	24.5	24.5	27.5	25.5	28.0	18.0	22.0	21.5	5
6	22.5	22.5	20.0	24.5	25.0	23.5	23.0	22.5	26.0	24.5	23.0	20.0	6
7	22.0	24.0	22.0	24.0	23.0	25.7	23.5	25.2	23.0	24.0	21.5	21.5	7
8	22.5	23.0	24.7	22.0	25.0	24.0	23.5	25.0	19.0	23.5	23.0	22.0	8
9	22.5	25.0	22.5	19.0	22.5	22.5	21.0	23.5	20.0	22.5	21.0	21.5	9
10	23.5	24.0	18.0	25.0	18.0	24.5	22.5	25.0	24.5	18.5	23.5	21.0	10
11	23.0	21.0	21.0	24.5	23.0	22.0	18.0	24.5	22.5	21.0	21.0	18.5	11
12	25.0	24.0	23.5	24.0	24.5	21.5	22.5	24.0	22.5	22.0	20.5	18.0	12
13	24.0	24.0	22.5	23.0	22.0	22.5	23.0	22.5	24.5	17.5	17.0	18.0	13
14	21.0	25.0	21.0	21.0	24.5	23.8	25.0	20.0	21.5	20.5	20.5	18.5	14
15	22.5	22.0	22.5	21.5	20.0	22.0	21.7	24.0	21.0	21.0	17.5	22.0	15
16	21.5	23.0	24.5	21.0	22.5	23.5	23.0	23.0	24.5	22.0	22.0	22.0	16
17	22.0	23.5	25.0	21.5	22.5	21.5	23.0	25.5	22.0	17.5	19.0	21.5	17
18	22.0	24.5	22.0	20.0	21.5	21.0	26.0	23.0	23.0	21.5	19.0	20.0	18
19	26.0	26.0	23.0	23.0	23.0	21.0	22.0	24.5	23.0	23.0	22.5	20.5	19
20	26.0	25.7		22.0	24.5	18.0	24.0	26.5	24.0	25.5	19.0	21.0	20
21	26.0	24.0	22.5	21.5	23.5	22.0	22.0	24.0	24.0	22.5	22.0	21.5	21
22	26.0	27.5	22.5	20.0	23.5	23.5	23.5	21.0	23.0	24.0	21.5	18.0	22
23	25.5	24.0	27.0	22.5	23.0	24.5	24.5	20.0	23.5	24.0	22.5	23.5	23
24	24.0	25.0	24.0	23.0	23.0	17.0	19.5	23.5	23.5	24.0	20.5	22.0	24
25	27.0	23.5	21.0	21.5	20.0	21.0	24.5	21.5	25.5	23.0	22.0	19.0	25
26	23.0	22.5	21.0	24.0	22.5	23.5	26.0	19.5	26.0	24.0	22.0	23.0	26
27	21.0	28.2	22.5	25.5	22.5	24.0	23.0	26.0	26.0	22.0	22.5	22.0	27
28	23.0	25.5	27.5	26.0	22.5	22.5	24.5	22.0	24.0	23.0	18.0	21.0	28
29	25.0		27.0	28.5	20.0	22.5	21.0	24.0	23.0	22.0	21.5	20.5	29
30	25.5		26.0	22.5	22.0	25.0	23.0	23.5	22.5	25.0	23.0	23.5	30
31	25.5		22.0		23.0		21.5	21.5		24.0		21.5	31
Average	23.7	24.1	23.0	22.9	22.7	22.5	23.2	23.5	23.5	22.0	21.2	20.9	
Annual Total ()													
44.3 100 x 1 x 30													

Temperature (At 13 O'clock)													STATION	
RIVER, IN THE BASIN OF													ELEVATION	
1,730m													UNIT °C	
YEAR													1967	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE	
1	21.0	23.2	21.0	20.0	22.0	21.5	24.5	25.0		22.2	17.5	26.0	1	
2	22.0	22.5	23.0	21.0	19.0	20.0	27.0	24.0			22.5	24.0	2	
3	21.0	22.5	22.5	23.0	23.0	22.0	23.5	24.0		26.2	23.0	23.0	3	
4	21.0	20.0	22.0	23.5	24.5	17.5	24.0	23.0		24.0	23.0	26.0	4	
5	22.5	21.0	24.0	23.0	24.0	19.0	22.0	22.5		24.0	23.0	25.5	5	
6	23.0	18.0	24.0	24.0	21.0	23.5	22.0	28.0		25.0	25.0	23.0	6	
7	21.0	17.2	22.0	26.5	17.5	16.0	25.0	24.0		25.7	24.0	25.0	7	
8	24.5	22.0	21.5	24.5	23.0	21.5	26.0	23.5		22.0	20.0	25.2	8	
9	21.5	17.8	20.0	22.5	25.0	24.0	22.0	25.5		18.5	24.0	24.0	9	
10	21.0	22.5	23.0	23.5	21.0	21.5	20.5	23.0		23.5	20.5	22.5	10	
11	20.5	20.6	22.0	25.0	22.5	21.0	19.5	24.0		24.0	23.5	24.0	11	
12	19.0	22.5	23.0	25.0	22.5	23.5	23.0	26.5		17.5	23.5	21.5	12	
13	20.5	23.4	24.5	21.5	22.0	22.0	22.5	25.0		22.0	23.0	23.0	13	
14	22.5	21.0	22.5	16.5	20.0	23.0	20.0	26.2		24.0	23.0	23.0	14	
15	21.5	21.5	19.0	23.5	24.0	21.0	18.5	25.0		24.3	22.0	20.5	15	
16	20.5	21.5	21.0	24.0	22.0	20.0	22.5	25.7		25.0	21.5	21.0	16	
17	23.4	20.5	17.6	24.5	22.5	20.5	25.0	22.0		25.5	24.0	23.5	17	
18	23.0	23.0	22.5	23.0	18.2	21.0	22.5	24.5	24.4	24.0	19.5	20.5	18	
19	22.5	22.0	23.5	23.0	24.0	22.0	21.5	23.5	25.5	23.0	20.0	23.0	19	
20	19.5	21.0	23.5	22.5	23.0	23.0	24.0	23.0	24.4	24.0	21.5	23.2	20	
21	22.5	21.0	23.5	25.0	24.5	23.0	21.0	22.5	25.0	22.7	18.5	22.0	21	
22	21.5	20.0	23.5	24.0	23.0	25.0	21.0	21.5	23.4	21.0	22.5	23.0	22	
23	21.0	18.0	22.0	22.0	23.0	22.5	20.0	23.0	25.5	23.0	23.0	23.0	23	
24	19.5	23.0		24.0	25.0	24.0	20.0	24.0	26.5	21.5	22.7	23.0	24	
25	22.0	22.0	22.5	22.0	21.5	19.0	23.5		26.7	22.5	20.0	22.0	25	
26	20.5	19.0	24.0	22.0	24.5	21.5	24.5		26.5	24.5		20.0	26	
27	21.0	21.0	19.5	20.5	23.0	22.5	24.0		22.0	24.0	22.0	23.5	27	
28	20.5	20.0	20.5	21.5	22.0	23.0	25.0		20.5	23.0	21.5	19.5	28	
29	20.0		18.5	22.0	22.5	23.0	23.5		20.5	22.0	21.0	22.0	29	
30	21.5		22.0	23.5	20.5	23.0	24.0		21.0	20.5	23.5	22.0	30	
31	22.0		22.5		18.0		22.5			17.5		23.0	31	
Average	21.4	21.0	22.0	22.9	22.3	21.7	22.7	24.0		23.0	22.0	23.0		
Annual Total ()														
44.3 100 x 1 x 30														

Temperature (At 13 O'clock) STATION Popayan													
RIVER, IN THE BASIN OF ELEVATION 1,730 m UNIT °C YEAR 1968													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	22.0	22.0	22.5	23.0	26.0	21.5	22.5	23.0	17.0	24.5	25.4	20.0	1
2	23.0	19.5	21.0	24.0	25.5	20.0	22.0	23.5	18.0	24.0	24.5	21.0	2
3	24.0	19.0	21.0	23.5	25.0	23.5	23.0	22.0	17.0	23.0	25.4	21.0	3
4	21.5	18.5	21.5	23.5	26.0	23.5	20.0	22.5	17.0	22.0	23.0	23.0	4
5	22.5	20.0	24.5	23.0	24.0	21.0	23.5	22.0	20.0	21.0	24.0	23.5	5
6	21.0	24.5	23.0	22.5	24.0	18.0	21.0	21.0	18.0	23.0	25.0	23.0	6
7	22.0	22.5	21.5	23.0	20.0	24.0	22.5	24.0	18.0	22.0	24.0	24.0	7
8	23.0	23.0	21.5	21.5	22.5	22.5	26.0	24.5	17.0	21.0	25.4	22.5	8
9	21.5	23.0	18.5	21.0	21.5	24.5	25.0	26.0	18.0	24.0	20.0	24.5	9
10	24.5	21.5	20.0	22.0	22.0	22.5	22.0	26.5	17.0	24.0	21.5	22.0	10
11	24.5	22.0	21.5	20.0	23.0	24.5	23.0	25.0	19.0	24.0	24.0	24.0	11
12	23.0	23.5	23.5	25.5	25.5	18.5	23.0	24.5	19.0	23.0	20.0	22.0	12
13	22.5	23.0	22.5	21.5	26.0	23.5	23.5	26.0	18.0	19.5	22.0	25.0	13
14	22.0	24.0	22.0	20.0	24.0	23.0	22.0	26.0	19.0	25.0	20.5	23.0	14
15	23.0	21.0	18.0	22.0	24.5	22.5	20.6	28.0	18.0	23.0	23.0	24.5	15
16	24.0	23.0	22.0	22.0	23.5	23.0	21.0	26.5	17.0	20.3	21.0	24.0	16
17	22.5	22.5	21.0	24.0	17.0	22.5	21.0	25.0	18.0	24.5	24.2	24.5	17
18	22.5	22.0	21.0	21.0	24.0	22.0	22.0	24.0	18.0	24.0	24.0	24.0	18
19	25.5	24.0	23.2	22.0	23.0	23.0	22.0	25.0	19.0	23.0	26.4	24.0	19
20	23.0	22.0	21.0	23.0	23.5	23.0	22.0	26.5	15.5	23.5	23.0	20.5	20
21	22.5	22.0	22.0	23.0	23.5	19.5	23.0	25.5	17.0	24.0	26.0	25.0	21
22	23.0	22.5	25.5	23.0	22.0	21.0	25.0	25.0	18.0	23.5	20.0	23.0	22
23	21.0	22.0	21.5	22.5	24.0	22.5	23.0	26.0	18.5	24.0	25.3	23.0	23
24	24.0	22.5	21.0	23.5	24.5	23.0	25.0	23.0	18.0	23.5	24.0	21.0	24
25	19.0	23.0	23.0	21.0	25.0	23.0	23.0	24.0	24.0	23.0	26.0	23.5	25
26	23.0	23.2	21.5	24.5	21.5	22.5	25.0	24.0	17.0	19.2	24.0	23.0	26
27	22.5	20.0	22.5	24.0	23.5	24.5	23.0	17.5	16.0	21.5	24.0	24.0	27
28	24.0	23.5	24.0	23.0	25.5	24.0	23.0	23.0	17.0	25.4	20.0	20.0	28
29	23.0	20.0	22.5	24.0	25.0	22.5	23.0	24.0	14.0	22.0	23.0	24.0	29
30	21.5	22.5	22.5	17.5	23.0	23.0	26.0	20.5	17.0	24.2	17.0	24.0	30
31	20.5	26.0	19.0	23.0	23.0	23.0	24.0	23.0	23.0	23.0	23.5	23.0	31
Average	22.7	22.1	22.0	22.5	23.3	22.4	22.9	24.1	17.8	23.0	23.2	23.0	
Annual Total ()													
44.3 100 x 1 x 30													

Temperature (At 13 O'clock) STATION Popayan													
RIVER, IN THE BASIN OF ELEVATION 1,730m UNIT °C YEAR 1969													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	19.0	23.5	24.4	21.0	24.0	24.2	23.0	24.0	25.0	18.0	23.0	23.5	1
2	24.0	26.0	20.0	24.2	22.2	24.5	26.0	25.0	28.0	23.0	26.0	22.5	2
3	24.0	26.0	22.1	23.5	25.0	17.0	24.0	28.0	26.5	20.0	25.0	23.0	3
4	25.5	22.0	22.0	24.1	22.0	23.0	22.0	25.1	28.0	17.5	23.0	21.5	4
5	23.0	23.0	23.0	24.0	26.0	21.5	24.0	26.0	25.2	22.0	22.5	22.5	5
6	21.5	24.5	26.0	21.3	26.5	26.0	24.5	26.2	27.0	23.0	23.5	23.0	6
7	24.0	25.0	25.0	21.0	24.5	22.0	24.5	23.0	25.5	21.0	23.0	23.5	7
8	25.5	21.0	25.0	24.0	25.0	23.5	24.0	22.5	25.0	23.0	22.0	23.0	8
9	25.0	23.5	24.2	21.0	22.0	23.5	23.0	24.0	27.0	22.0	24.0	22.0	9
10	25.5	22.0	26.0	24.1	23.5	24.0	22.0	22.0	26.0	26.0	22.5	24.0	10
11	21.5	24.5	24.1	25.0	26.0	22.0	25.0	24.0	26.0	23.5	22.0	23.5	11
12	20.0	22.0	24.0	25.0	24.2	24.0	25.0	22.0	27.0	25.5	23.5	22.0	12
13	23.0	24.5	25.4	22.0	20.0	24.5	25.2	26.0	26.0	25.0	24.0	22.5	13
14	20.0	23.0	23.0	24.1	23.0	25.0	25.0	22.0	28.0	25.0	24.0	23.0	14
15	18.0	22.0	25.5	18.0	25.0	24.0	22.0	20.0	26.0	22.0	22.5	23.5	15
16	24.0	21.0	26.0	22.5	23.0	25.0	22.5	22.5	25.0	20.5	22.0	23.0	16
17	23.0	20.0	25.2	22.0	21.0	25.5	26.2	21.0	24.0	19.0	24.0	21.0	17
18	22.0	22.5	25.0	20.4	24.0	23.0	27.0	21.5	25.0	24.0	21.5	22.0	18
19	19.0	23.1	24.8	25.0	26.0	18.0	26.0	24.0	19.0	22.0	23.0	23.0	19
20	23.0	22.0	23.5	24.1	23.0	25.0	27.5	28.0	22.0	25.0	24.0	22.5	20
21	21.0	22.2	21.1	25.0	25.0	25.0	27.0	24.0	22.0	23.0	21.0	22.5	21
22	20.5	24.5	25.0	18.2	22.8	26.0	24.0	24.0	21.0	22.5	24.0	17.0	22
23	22.5	22.4	23.2	24.0	25.0	24.0	21.0	22.0	24.0	24.0	25.0	25.0	23
24	22.0	23.0	24.0	22.0	27.0	26.0	23.0	24.0	21.0	23.0	21.0	21.0	24
25	22.0	23.1	23.4	21.0	29.0	24.0	26.5	23.5	24.0	24.0	18.0	-	25
26	23.5	23.5	24.0	25.1	22.0	22.0	23.0	24.0	21.5	25.0	23.0	25.0	26
27	23.0	24.2	22.0	26.0	25.0	22.0	25.5	23.0	19.0	20.0	23.5	24.0	27
28	23.0	25.5	24.0	24.1	23.0	23.0	28.0	25.5	24.0	25.0	23.0	25.0	28
29	24.0	25.2	24.0	25.0	24.0	24.0	25.0	23.0	22.0	23.0	20.0	24.0	29
30	24.5	24.0	24.4	23.0	24.5	23.0	23.0	25.0	25.0	18.0	23.0	26.0	30
31	24.0	24.1	23.0	23.0	24.0	24.0	25.0	25.0	25.0	25.0	26.0	26.0	31
Average	22.0	23.2	24.0	23.0	24.0	23.5	24.7	24.0	24.5	22.6	22.9	23.0	
Annual Total ()													
44.3 100 x 1 x 30													

Temperature (At 13 O'clock) STATION Popayan													
RIVER, IN THE BASIN OF				ELEVATION		1,730m		UNIT		°C		YEAR 1970	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1		23.0	23.0	26.0	20.0	26.0	23.0	23.0	23.0	23.0	25.0	23.0	1
2	22.0	22.0	19.0	26.0	23.0	26.0	23.5	22.0	21.1	23.2	24.5	22.0	2
3	22.0	23.0	24.0	24.0	21.0	22.2	26.0	22.2	20.0	25.0	23.0	22.0	3
4	25.0	20.0	22.0	26.3	22.0	24.2	24.0	24.0	20.0	23.0	20.0	21.0	4
5	26.0	23.0	25.5	25.0	23.0	21.1	24.6	22.9	25.5	23.0	21.2	22.0	5
6	25.0	23.0	24.0	26.8	19.0	20.0	22.6	22.0	21.1	23.0	21.0	22.0	6
7	21.5	20.0	24.0	24.0	24.2	20.0	20.5	22.0	24.0	24.0	23.5	22.0	7
8	25.0	24.0	21.0	21.0	22.0	24.0	22.0	24.0	20.0	22.0	23.0	24.0	8
9	27.0	24.0	22.0	24.2	26.0	21.0	24.0	22.0	25.0	20.5	22.0	22.0	9
10	23.0	24.0	23.5	23.0	23.0	20.0	23.0	24.0	23.0	19.0	23.0	24.0	10
11	21.0	26.0	21.0	23.0	23.0	25.0	23.0	21.0	25.0	23.2	22.0	24.0	11
12	18.0	24.0	22.0	18.0	23.0	21.5	23.5	24.0	23.1	21.0	22.0	23.0	12
13	24.0	25.0	22.0	26.5	23.0	22.0	23.2	23.0	23.0	21.0	21.6	22.1	13
14	19.0	26.0	21.0	20.0	24.0	24.0	22.5	24.0	23.0	23.0	22.0	22.0	14
15	21.0	25.0	24.0	24.2	22.0	23.0	24.0	20.3	22.5	23.0	21.4	23.0	15
16	22.5	25.0	23.8	23.0	20.0	20.0	23.4	25.0	18.5	23.0	23.0	23.0	16
17	20.5	20.5	25.5	24.2	21.0	25.0	25.0	22.4	21.0	26.0	24.0	24.0	17
18	22.5	21.5	25.0	23.2	25.0	25.2	23.0	24.0	22.0	23.0	23.0	25.0	18
19	20.0	24.0	25.0	25.0	19.0	26.0	21.0	22.0	25.0	27.0	22.0	22.1	19
20	21.5	20.5	22.5	24.0	21.0	22.0	22.5	24.0	23.0	23.0	24.0	18.0	20
21	22.0	22.0	28.0	24.0	24.0	24.0	24.5	24.0	21.0	21.5	22.4	22.8	21
22	24.0	24.5	26.0	21.0	23.0	22.0	24.5	27.0	20.1	23.0	22.0	19.0	22
23	24.0	24.0	23.0	25.0	22.0	23.0	22.3	21.0	17.0	20.0	22.0	21.5	23
24	23.0	19.5	22.0	26.0	25.0	20.0	23.2	23.0	22.0	25.0	25.0	22.0	24
25	23.0	20.0	23.0	22.0	22.2	23.0	22.0	22.2	23.0	19.5	22.0	22.0	25
26	22.0		23.0	23.0	22.0	23.2	22.4	23.0	20.5	23.0	22.0	20.0	26
27	22.0	26.0	25.0	21.3	21.0	21.0	22.1	22.7	23.0	22.0	22.0	23.0	27
28	24.0	23.5	21.0	23.0	20.0	25.3	21.6	23.0	20.0	22.0	23.0	23.0	28
29	25.0		25.0	20.0	23.2	25.0	21.5	21.0	20.0	24.0	19.0	23.0	29
30	25.0		26.0	26.0	24.0	22.9	20.4	18.0	23.1	26.0	20.0	23.0	30
31	21.5		24.0		24.0		23.0	23.0		24.0		23.0	31
Average	22.7	23.1	23.5	23.6	22.4	23.1	23.0	22.7	22.0	22.9	22.4	22.3	
Annual Total ()													
44.3 100 x 1 x 30													

Temperature (At 13 O'clock) STATION Popayan													
RIVER, IN THE BASIN OF				ELEVATION		1,730 m		UNIT		°C		YEAR 1971	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	24.0	22.0	23.2	20.0	19.0	21.0	21.5	24.0	23.0				1
2	21.4	22.0	23.0	22.0	21.0	24.0	22.0	19.0	24.0				2
3	24.0	22.4	21.0	18.5	23.0	24.0	21.0	23.0	22.0				3
4	20.0	22.0	22.5	24.0	22.0	25.0	20.0	21.0	21.0				4
5	20.0	20.0	25.0	23.0	23.0	21.0	25.0	22.0	22.4				5
6	22.0	23.0	26.0	23.0	20.0	23.0	24.0	22.5	-				6
7	20.0	23.0	22.5	24.0	24.0	22.0	20.5	22.0	-				7
8	24.0	22.0	22.0	24.0	21.0	26.0	26.0	21.2	-				8
9	21.0	18.0	22.0	22.0	23.0	22.0	26.5	24.0	-				9
10	22.0	20.0	25.0	22.4	20.0	21.0	21.0	22.0	-				10
11	23.0	19.5	22.0	23.0	19.0	24.0	23.0	22.0	-				11
12	22.3	21.0	22.0	24.0	22.0	20.0	25.0	22.0	-				12
13	20.0	21.0	24.0	22.0	24.0	19.5	20.5	23.0	-				13
14	21.2	19.0	22.0	16.5	21.0	23.0	22.0	21.0	-				14
15	22.5	19.2	21.0	21.5	22.0	23.0	23.0	21.0	22.0				15
16	23.0	20.4	21.0	25.0	19.0	22.0	23.0	22.0	20.0				16
17	22.0	22.0	22.0	23.5	20.0	22.0	24.0	20.0	20.2				17
18	20.3	19.0	19.0	22.5	24.0	21.0	24.0	23.0	22.0				18
19	20.0	22.0	20.0	20.4	23.0	21.5	24.0	22.0	23.0				19
20	21.0	21.0	18.0	18.0	21.5	22.0	28.0	21.0	22.0				20
21	22.0	21.0	21.5	20.0	23.0	18.5	25.0	22.0	20.0				21
22	23.1	20.0	22.0	21.5	20.0	22.0	26.0	21.5	24.0				22
23	23.0	21.5	22.5	20.0	22.0	24.0	24.0	25.0	22.0				23
24	24.0	22.0	21.0	24.0	25.0	22.0	23.0	22.0	24.0				24
25	22.0	23.0	20.0	25.0	18.0	24.0	23.4	24.0	22.0				25
26	22.0	25.0	23.0	26.0	19.5	22.0	24.0	20.0	24.0				26
27	22.0	22.0	23.0	26.0	24.0	22.0	20.0	22.0	24.2				27
28	23.0	25.0	21.0	24.0	19.0	21.0	22.0	23.0	24.0				28
29	22.0		22.1	25.0	23.0	24.0	23.0	23.0	22.2				29
30	23.0		23.0	23.0	21.0	24.0	23.0	23.5	18.0				30
31	23.0		20.0		24.0		22.0	26.0					31
Average	22.0	21.4	21.9	22.5	21.6	22.4	23.2	22.2	22.2				
Annual Total ()													
44.3 100 x 1 x 30													

III - 8. DAILY RELATIVE HUMIDITY

<u>Gauging Station</u>	<u>Elevation (m)</u>	<u>Recording Period</u>
(1) Popayan	1,730	Jan. 1961 - Dec. 1971

Humidity (At 13 O'clock)													
STATION Popayan													
RIVER, IN THE BASIN OF				ELEVATION				1,730m UNIT		%		YEAR 1962	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	62	67	55	73	62	61	70	38	58	62	69	68	1
2	65	65	57	75	72	63	50	46	33	62	63	64	2
3	66	84	66	66	62	65	59	42	48	58	86	69	3
4	68	74	70	71	67	68	56	51	66	74	63	42	4
5	49	63	91	62	59	71	53	54	57	57	69	56	5
6	66	62	75	80	66	72	42	71	49	57	63	66	6
7	69	81	91	64	68	64	53	62	53	71	75	62	7
8	66	70	69	74	76	77	58	63	48	70	63	59	8
9	65	80	68	62	76	69	53	68	72	81	63	64	9
10	65	56	64	80	91	73	36	61	47	75	69	65	10
11	62	67	69	62	66	79	45	56	60	66	63	69	11
12	80	75	58	51	86	62	45	55	38	63	66	68	12
13	58	68	75	61	69	83	59	57	55	57	66	78	13
14	70	61	72	76	76	65	49	78	56	100	73	64	14
15	69	100	79	67	63	65	75	51	60	90	75	83	15
16	73	68	62	72	74	88	48	70	68	85	61	72	16
17	69	82	65	66	68	46	47	59	73	67	83	72	17
18	68	68	71	58	76	50	52	62	51	69	70	75	18
19	63	62	65	72	80	55	76	61	57	67	69	72	19
20	61	63	83	70	75	60	42	55	57	64	51	95	20
21	62	65	65	73	64	75	50	42	95	58	32	100	21
22	64	66	75	74	56	43	65	42	63	50	56	63	22
23	59	58	91	79	62	53	57	42	47	49	65	65	23
24	77	61	68	73	80	59	68	61	39	45	69	65	24
25	53	58	73	74	83	68	60	47	36	48	61	54	25
26	62	50	74	76	87	80	62	53	50	57	79	69	26
27	58	63	65	70	73	78	57	62	68	57	69	66	27
28	57	79	73	65	60	74	62	64	55	55	57	57	28
29	75	55	63	57	57	59	65	57	62	68	77	58	29
30	68		72	72	64	75	39	65	62	73	68	56	30
31	61				62		51	65		76		51	31
Average	65	55	70	69	70	66	56	57	55	65	68	66	
Annual Total ()													
443 100 x 1 x 30													

Humidity (At 13 O'clock)													
STATION Popayan													
RIVER, IN THE BASIN OF				ELEVATION				1,730m UNIT		%		YEAR 1963	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	56	68	65	69	58	48	44	83	32	53	65	59	1
2	50	75	50	66	65	67	49	75	33	58	56	65	2
3	66	82	56	63	58	58	39	57	34	55	66	61	3
4	72	72	64	100	58	48	39	37	33	42	50	83	4
5	65	100	61	62	58	47	38	39	44	44	58	53	5
6	66	68	63	74	100	44	40	46	40	39	84	47	6
7	68	65	57	68	85	45	40	61	51	54	58	50	7
8	65	54	74	57	65	47	56	71	65	53	44	51	8
9	68	69	68	57	63	58	65	40	59	54	50	50	9
10	91	75	69	58	91	68	82	42	51	46	43	42	10
11	75	77	59	68	63	83	64	41	53	42	58	51	11
12	61	62	82	63	57	75	61	42	46	50	46	51	12
13	65	62	68	63	75	80	69	33	37	44	61	48	13
14	63	51	62	63	69	68	63	47	37	54	59	60	14
15	67	61	64	57	68	62	59	54	43	83	51	56	15
16	71	55	68	60	65	61	82	48	36	83	44	57	16
17	63	63	57	63	68	52	52	47	62	75	42	61	17
18	86	68	75	76	55	51	41	41	43	53	56	65	18
19	75	79	63	53	58	48	57	49	49	48	50	55	19
20	50	70	61	68	68	37	42	56	48	58	61	65	20
21	61	68	68	43	46	32	38	41	58	48	57	48	21
22	57	83	62	53	45	38	45	60	68	42	81	50	22
23	54	71	59	48	48	46	50	49	58	51	61	58	23
24	60	68	92	71	54	43	39	48	46	55	69	62	24
25	61	65	59	61	57	40	50	42	58	48	65	75	25
26	58	75	69	55	47	44	48	44	58	69	72	65	26
27	66	65	70	69	57	51	43	41	50	44	67	58	27
28	71	61	62	61	57	56	57	25	39	67	69	58	28
29	50		60	75	41	61	48	28	56	54	58	68	29
30	65		57	62	42	57	40	34	41	65	60	73	30
31	64				54		65	38		78		58	31
Average	65	69	65	64	61	54	52	47	48	55	58	58	
Annual Total ()													
443 100 x 1 x 30													

Humidity (At 13 O'clock)													
STATION Popayan													
RIVER, IN THE BASIN OF													
ELEVATION 1,730m UNIT % YEAR 1964													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1										58	77	61	1
2										68	76	61	2
3										43	96	58	3
4										35	91	70	4
5									61	42	80	70	5
6									42	76	70	62	6
7									55	67	67	70	7
8									58	61	80	55	8
9									62	66	50	70	9
10									70	67	53	80	10
11									48	70	64	80	11
12									46	62	66	65	12
13									37	67	64	73	13
14									50	60	67	65	14
15									46	70	70	77	15
16									62	64	86	70	16
17									55	61	88	68	17
18									61	64	71	57	18
19									40	66	64	70	19
20									53	70	63	62	20
21									44	64	64	69	21
22									42	64	59	79	22
23									55	66	67	70	23
24									56	79	66	38	24
25									72	49	70	83	25
26									66	67	61	57	26
27									58	62	74	70	27
28									58	69	61	75	28
29									54	90	63	61	29
30									92	68	58	71	30
31										70		61	31
Average									56	64	70	67	
										Annual Total ()			
44.3 100 x 1 x 30													

Humidity (At 13 O'clock)													
STATION Popayan													
RIVER, IN THE BASIN OF													
ELEVATION 1,730m UNIT % YEAR 1965													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	66	54	52	76	58	52	56	46	50	83	56	58	1
2	54	70	48	67	67	53	66	50	37	59	71	62	2
3	73	61	55	95	58	53	69	40	61	61	67	61	3
4	57	62	63	70	45	52	58	52	78	61	68	63	4
5	70	61	61	61	42	52	69	37	61	54	66	69	5
6	55	52	63	69	58	39	69	35	47	54	69	62	6
7	63	69	73	55	72	50	53	72	56	58	80	96	7
8	60	63	64	63	67	35	47	47	52	53	91	70	8
9	74	52	58	91	71	72	48	34	45	70	76	67	9
10	58	45	63	67	74	56	43	55	77	67	56	73	10
11	68	61	55	76	63	60	55	36	63	91	60	55	11
12	58	61	57	80	94	53	38	54	29	70	62	67	12
13	83	62	76	65	66	42	37	48	42	60	63	63	13
14	73	63	63	69	58	49	44	45	44	83	64	71	14
15	71	66	55	83	55	60	47	50	61	53	69	67	15
16	76	37	61	66	73	56	41	60	38	64	81	62	16
17	80	58	66	53	44	51	34	69	34	67	61	62	17
18	71	55	63	64	55	37	32	75	43	55	71	64	18
19	69	69	69	56	53	38	42	80	39	62	95	58	19
20	67	55	69	76	91	42	38	61	45	59	72	62	20
21	63	67	76	64	65	46	49	45	49	65	63	58	21
22	74	58	69	67	61	46	38	42	52	58	67	44	22
23	63	55	53	58	61	38	39	41	56	62	63	52	23
24	63	45	65	80	48	52	34	39	54	49	67	74	24
25	78	50	50	88	53	50	41	41	55	61	72	63	25
26	74	43	58	66	69	39	32	29	62	76	69	64	26
27	64	59	64	67	67	49	35	37	83	67	60	67	27
28	74	56	84	91	67	63	52	39	69	73	100	70	28
29	57		67	66	73	52	51	55	52	62	61	76	29
30	67		53	73	73	54	37	49	61	59	62	76	30
31	75		39		66		62	33		96		67	31
Average	68	57	62	71	63	50	47	48	53	65	69	65	
Annual Total ()													
44.3 100 x 1 x 30													

Humidity (At 13 O'clock)													
STATION Popayan													
RIVER, IN THE BASIN OF													
ELEVATION 1,730m UNIT													
% YEAR 1966													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	73	50	47	33		70	48	56	68	72	67	64	1
2	61	51	67	70	63	54	50	37	48	80	73	65	2
3	70	66	61	60	64	35	39	47	79	75	56	66	3
4	76	64	52	54	59	45	53	58	53	58	63	79	4
5	58	61	53	61	55	48	34	40	31	72	66	66	5
6	68	67	76	53	54	50	46	54	38	56	62	73	6
7	70	56	70	58	64	56	46	52	55	58	67	73	7
8	64	71	54	67	53	53	56	43	68	61	58	61	8
9	66	58	61	83	66	61	70	50	50	64	70	66	9
10	61	53	83	47	90	56	61	48	50	80	61	72	10
11	64	77	52	49	64	61	80	45	58	67	70	86	11
12	53	56	61	54	56	68	61	47	61	64	69	93	12
13	58	53	38	64	70	64	64	61	48	86	92	88	13
14	72	40	79	72	61	60	53	72	67	73	73	83	14
15	66	52	52	66	84	64	66	53	65	56	92	70	15
16	73	53	56	66	65	61	58	53	56	57	64	73	16
17	70	48	49	73	66	70	52	46	64	92	84	70	17
18	66	54	70	76	63	70	49	58	52	70	36	73	18
19	54	41	60	58	64	69	45	56	58	53	67	72	19
20	37	52		67	43	92	47	37	58	56	89	65	20
21	43	58	63	66	59	57	64	53	58	60	66	66	21
22	43	42	67	84	58	61	56	62	64	47	67	86	22
23	50	58	37	66	58	54	54	78	52	53	67	56	23
24	47	55	58	64	55	85	80	44	44	58	67	63	24
25	34	56	77	66	84	74	48	63	43	55	77	83	25
26	55	71	70	61	61	61	38	73	49	58	70	64	26
27	77	38	71	50	66	50	40	54	49	64	61	70	27
28	67	56	48	45	66	54	56	64	53	58	67	71	28
29	53		35	38	84	65	70	60	58	70	86	72	29
30	50		20	61	69	53	64	56	67	53	67	64	30
31	54		70		64		69	63		49	60	73	31
Average	60	54	59	61	64	61	55	54	55	64	70	72	
Annual Total ()													
44.3 100 x 1 x 30													

Humidity (At 13 O'clock)													
STATION Popayan													
RIVER, IN THE BASIN OF				ELEVATION 1,730m				UNIT		%		YEAR 1967	
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	77	63	73	73	63	67	50	39		82	83	38	1
2	63	69	60	77	83	76	39	47		-	57	65	2
3	69	74	61	64	60	70	49	51		42	61	64	3
4	77	49	66	55	56	83	41	40		32	64	38	4
5	61	73	58	58	56	83	57	39		41	58	46	5
6	58	80	61	58	77	52	66	40		35	53	58	6
7	68	89	70	47	76	91	53	43		45	56	57	7
8	56	62	70	54	64	56	38	44		60	76	58	8
9	63	89	76	68	59	58	58	33		83	56	56	9
10	69	60	66	62	77	58	62	51		53	80	67	10
11	76	74	63	53	66	69	72	41		52	58	62	11
12	83	54	61	53	67	66	58	42		91	55	74	12
13	72	62	56	74	66	63	61	48		63	66	58	13
14	57	66	64	91	76	56	72	42		58	64	61	14
15	70	70	83	56	57	69	87	48		51	63	76	15
16	72	66	69	58	70	76	56	45		51	74	58	16
17	64	51	95	56	39	73	48	59		57	52	55	17
18	61	67	54	64	86	60	51	45	50	58	88	76	18
19	64	67	62	51	61	63	67	52	41	58	76	55	19
20	76	69	58	54	64	52	58	48	54	52	67	54	20
21	57	65	49	42	68	58	69	61	51	62	83	61	21
22	67	75	52	58	58	44	66	67	55	58	57	61	22
23	71	83	61	59	64	41	74	53	41	61	55	64	23
24	76	65		58	48	47	69	49	47	67	60	58	24
25	67	63	66	66	70	83	62		36	67	65	61	25
26	73	79	58	63	56	67	42		58	50	67	84	26
27	68	69	80	73	61	61	47		70	47	67	59	27
28	72	70	76	70	63	44	42		80	58	73	88	28
29	69		79	63	57	55	49		69	63	55	63	29
30	67		63	49	73	58	47		73	69		63	30
31	66		66		95		41			91		58	31
Average	68	69	66	61	66	64	57	47		59	65	61	
Annual Total ()													
44.3 100 x 1 x 30													

Humidity (At 13 O'clock)													
STATION Popayan													
RIVER, IN THE BASIN OF													
ELEVATION 1,730m													
UNIT													
%													
YEAR 1968													
DATE	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	60	64	61	64	44	66	60	46	62	56	41	69	1
2	55	73	70	58	38	76	64	43	65	65	45	77	2
3	41	76	70	65	45	54	58	57	52	58	65	62	3
4	60	80	63	61	41	58	80	51	57	57	58	71	4
5	61	70	59	64	50	70	94	57	50	70	67	46	5
6	70	56	58	60	47	71	70	79	90	58	48	64	6
7	64	64	67	64	76	47	60	53	50	64	71	53	7
8	64	61	67	73	60	64	44	45	62	77	61	64	8
9	70	61	88	77	66	50	43	34	56	53	70	56	9
10	50	67	76	64	70	61	50	30	50	58	66	67	10
11	56	64	67	76	61	50	46	37	53	53	56	53	11
12	61	58	56		46	83	52	39	58	64	84	67	12
13	61	58	61	66	44	62	50	34	41	80	70	45	13
14	57	58	70	72	53	58	57	34	52	59	69	64	14
15	58	58	83	70	48	61	66	31	46	58	71	50	15
16	56	58	64	57	58	52	70	37	46	70	80	58	16
17	68	61	77	58	78	61	70	43	56	50	68	50	17
18	65	64	62	62	47	64	57	53	62	71	65	58	18
19	56	58	63	64	61	58	64	43	62	58	57	65	19
20	58	64	70	64	61	58	64	32	40	75	71	72	20
21	61	70	66	61	58	80	58	43	68	53	58	53	21
22	64	61	40	58	57	73	43	37	75	68	76	71	22
23	70	64	67	67	58	61	58	44	50	53	60	52	23
24	53	67	70	55	56	58	43	52	50	74	65	70	24
25	84	64	64	70	53	55	46	47	45	64	62	94	25
26	61	63	67	56	70	58	43	56	50	84	53	64	26
27	61	76	61	58	58	40	52	83	52	60	65	58	27
28	58	56	62	64	51	53	46	64	68	65	80	69	28
29	55	76	64	56	53	61	46	56	56	67	78	53	29
30	71		64	60	96	58	41	73	86	72	95	53	30
31	85		44		85		52	58		58		94	31
Average	62	64	65	64	58	61	56	48	57	64	62	63	
Annual Total ()													
44.3 100 x 1 x 30													

Humidity (At 13 O'clock)													
STATION Popayan													
RIVER, IN THE BASIN OF													
ELEVATION 1,730m													
UNIT													
%													
YEAR 1969													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	84	94									64	54	1
2	47	44									60	66	2
3	48	44									53	64	3
4	46	64									71	77	4
5	58	68									64	66	5
6	73	56									64	60	6
7	56	63									58	62	7
8	46	70									70	77	8
9	43	71									58	70	9
10	51	70									64	71	10
11	70	65									70	58	11
12	84	70									61	70	12
13	64	56									58	66	13
14	76	58									62	64	14
15	92	64									70	54	15
16	65	70								73	70	64	16
17	67	85								97	52	62	17
18	70	64								58	73	66	18
19	84									70	64	58	19
20	64									65	55	66	20
21	70									71	77	64	21
22	66									64	67	96	22
23	67									62	59	53	23
24	64									58	77	73	24
25	70									58	95		25
26	61									53	64	65	26
27	64									85	61	58	27
28	71									59	71	65	28
29	53									74	76	52	29
30	56									83	68	60	30
31	58									65		49	31
Average	64	65								68	66	64	
Annual Total ()													
44.3 100 x 1 x 30													

Humidity (At 13 O'clock)													
STATION Popayan													
RIVER, IN THE BASIN OF ELEVATION 1,730m UNIT % YEAR 1970													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1		71	71	54	92	49	58	64	64	63	52	70	1
2	62	77	88	54	74	49	55	70	84	62	61	69	2
3	73	71	58	58	84	78	43	57	84	61	66	73	3
4	58	76	55	52	66	57	47	58	92	70	83	72	4
5	53	71	50	53	71	78	65	72	62	70	77	76	5
6	47	71	65	58	91	85	68	70	84	74	76	69	6
7	76	76	58	80	73	92	79	57	58	64	67	76	7
8	52	61	77	84	77	71	70	58	84	73	63	64	8
9	43	52	70	61	60	77	65	57	59	83	66	76	9
10	63	61	54	68	64	92	69	58	67	79	63	70	10
11	76	72	77	77	71	53	61	77	65	62	76	64	11
12	82	61	66	95	64	81	68	53	75	83	76	71	12
13	67	61	66	45	71	64	65	72	64	83	75	79	13
14	79	60	69	92	71	45	61	71	73	70	81	76	14
15	72	53	52	59	80	58	58	74	66	70	73	57	15
16	66	59	62	77	76	85	68	53	91	60	70	63	16
17	87	68	50	66	80	43	53	76	69	59	65	70	17
18	60	73	48	73	53	41	60	58	78	60	70	52	18
19	83	52	53	72	75	44	66	70	53	54	73	83	19
20	62	80	64	65	69	64	68	53	64	71	70	91	20
21	76	77	45	71	66	53	49	74	69	73	73	73	21
22	51	61	38	84	58	78	49	40	88	70	70	83	22
23	51	58	39	65	70	58	71	77	83	83	69	73	23
24	63	71	70	49	65	85	64	58	70	52	52	62	24
25	70	76	58	66	84	64	66	81	64	79	69	66	25
26	69	-	58	64	70	72	72	64	84	70	69	75	26
27	76	49	53	82	69	50	80	75	58	69	97	70	27
28	57	57	84	58	69	60	73	67	92	62	63	63	28
29	58	-	59	84	69	37	84	85	84	64	91	77	29
30	52	-	66	49	58	72	84	90	74	69	25	63	30
31	76	-	52	-	65	-	72	78	-	51	-	71	31
Average	65	66	60	67	71	66	65	66	73	69	71	71	
Annual Total ()													
44.3 100 x 1 x 30													

Humidity (At 13 O'clock)													
STATION Popayan													
RIVER, IN THE BASIN OF ELEVATION 1,730m UNIT % YEAR 1971													
DATE	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	DATE
1	64	77	73	79	87	69	66	70	71				1
2	75	70	70	64	80	58	69	83	51				2
3	64	71	80	79	63	68	83	84	80				3
4	89	70	56	64	80	72	83	68	68				4
5	83	72	85	74	70	80	58	69	72				5
6	80	58	65	71	75	71	64	66	-				6
7	72	64	77	70	51	73	65	69	-				7
8	67	70	76	51	76	54	59	77	-				8
9	68	91	69	66	63	77	63	57	-				9
10	69	84	65	67	72	77	83	78	-				10
11	63	81	80	74	83	56	57	69	-				11
12	77	77	62	67	70	84	58	69	-				12
13	83	69	64	84	70	88	83	63	-				13
14	78	83	76	95	83	64	66	76	-				14
15	73	90	72	80	69	60	63	68	71				15
16	73	81	76	52	83	70	51	67	75				16
17	76	63	73	88	83	77	52	83	82				17
18	85	83	100	50	64	69	51	70	62				18
19	75	63	91	76	61	70	57	69	71				19
20	68	69	91	91	76	70	44	79	69				20
21	69	79	73	83	57	87	61	69	87				21
22	73	92	69	84	87	70	48	76	57				22
23	63	74	70	83	69	71	70	58	71				23
24	65	43	83	67	58	63	57	78	57				24
25	69	73	83	58	91	68	71	57	62				25
26	78	53	70	48	87	70	51	83	57				26
27	69	79	70	53	57	77	75	69	66				27
28	73	53	76	64	91	77	69	71	64				28
29	69	-	75	52	57	58	70	63	74				29
30	72	-	63	73	83	58	57	68	82				30
31	63	-	75	-	57	-	72	53	-				31
Average	72	73	74	70	73	70	64	70	69				
Annual Total ()													
44.3 100 x 1 x 30													