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# CONSEJO FEDERAL DE INVERSIONES

Programa MASAPA - Provincia del Chaco

- Manejo de Agua y Suelo en Areas Productivas Agrícolas -



“ Plan de Seguimiento Hidrológico ”

“ Relevamiento y Actualización de Datos e Información Hidrológica ”



## Informe Final

ANEXOS

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**Consultor:** Ing. MARTINEZ Luis Héctor  
Mendoza 33 - TelFax 0722-27914/74981  
C.P. 3500 - Resistencia - Chaco

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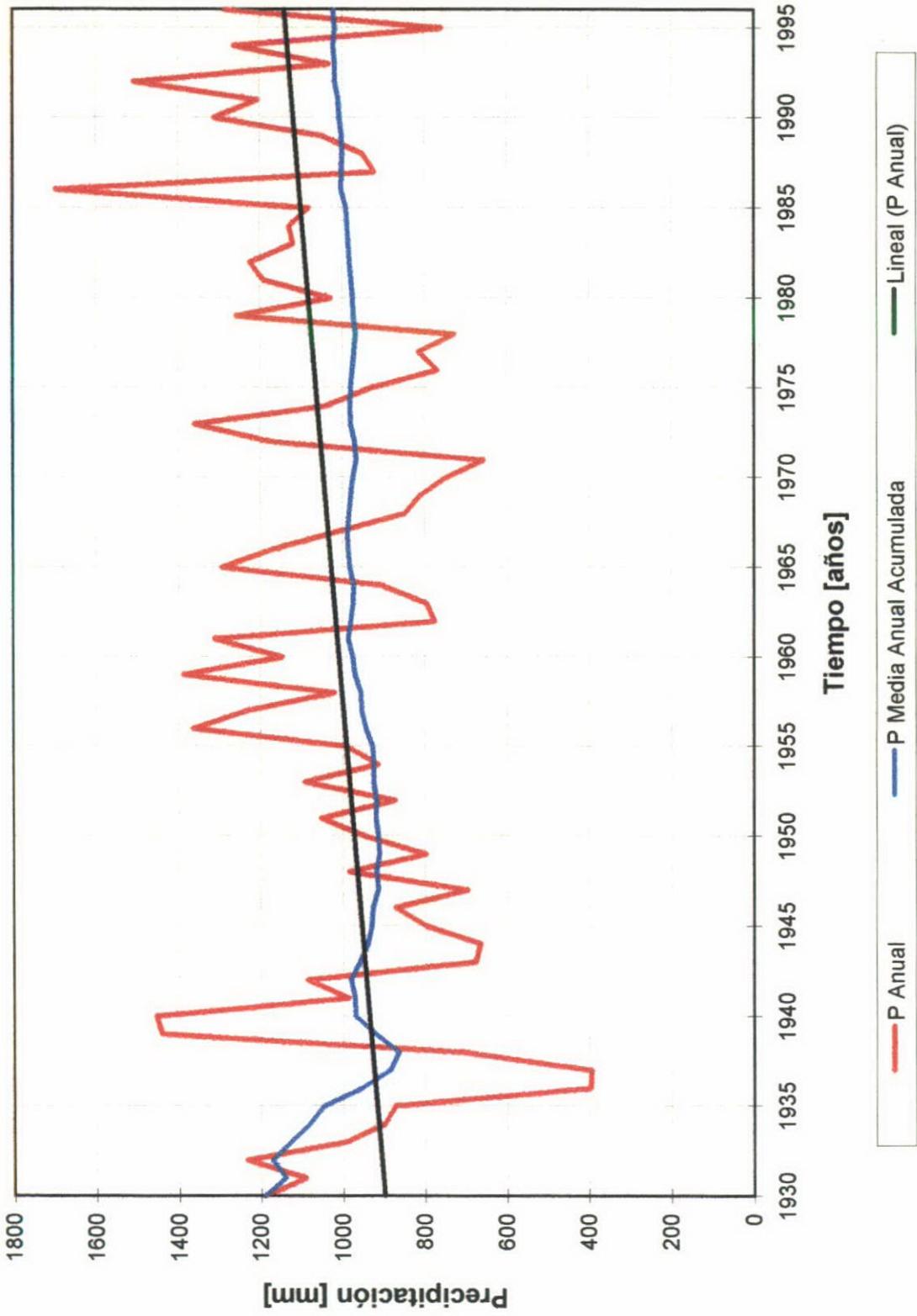
**TOMO II**

**ANEXO GRAFICOS**  
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**ANEXO CORRIDAS**  
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## ANEXO GRAFICOS

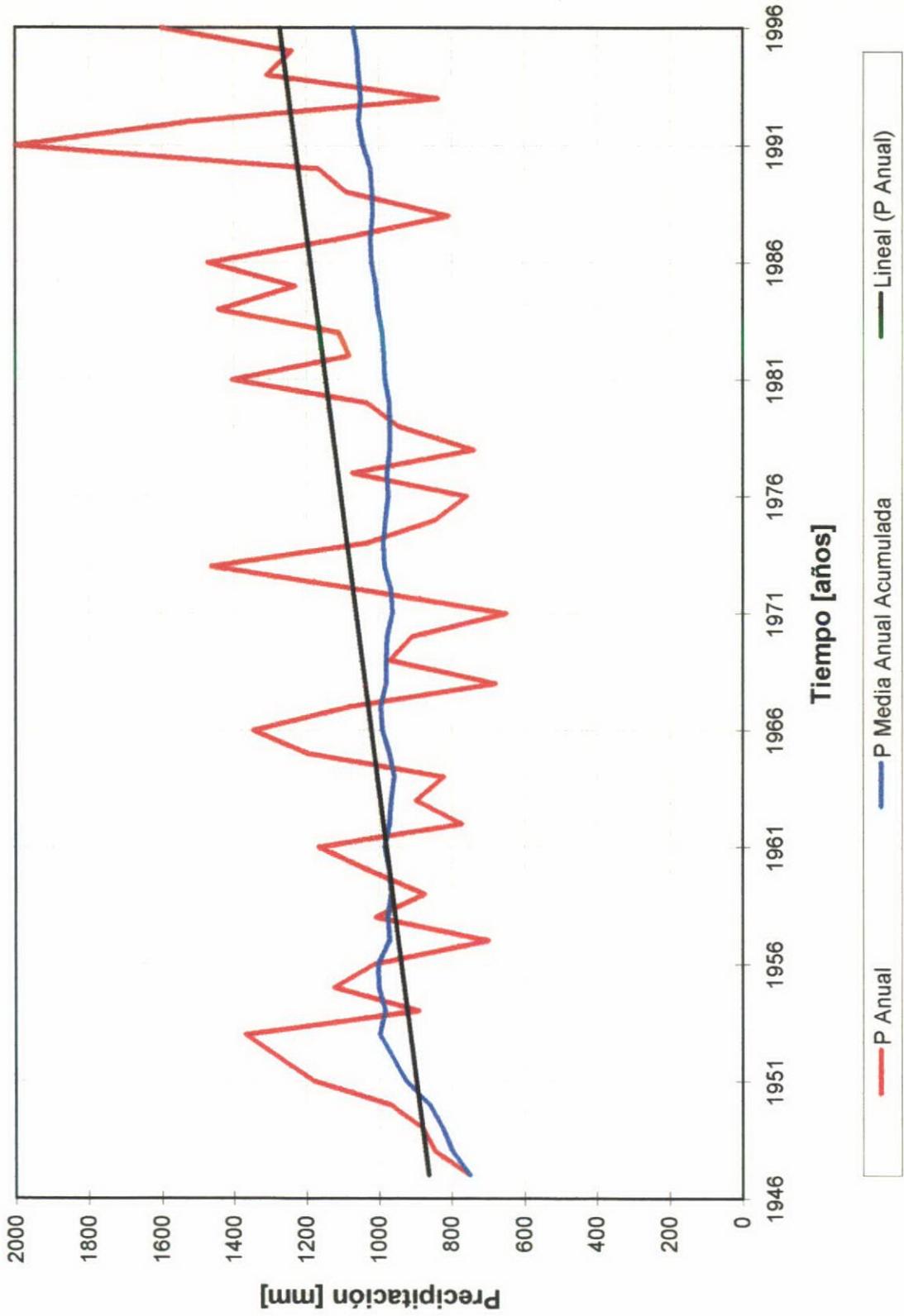
**PRECIPITACIONES ANUALES**  
**SAENZ PEÑA - Serie 1930 / 96**

GRAFICO N° 1



**PRECIPITACIONES ANUALES**  
**VILLA ANGELA - Serie 1947 / 96**

GRAFICO N° 2



**PRECIPITACIONES ANUALES**  
**LAS BREÑAS - Serie 1937 / 96**

GRAFICO N° 3

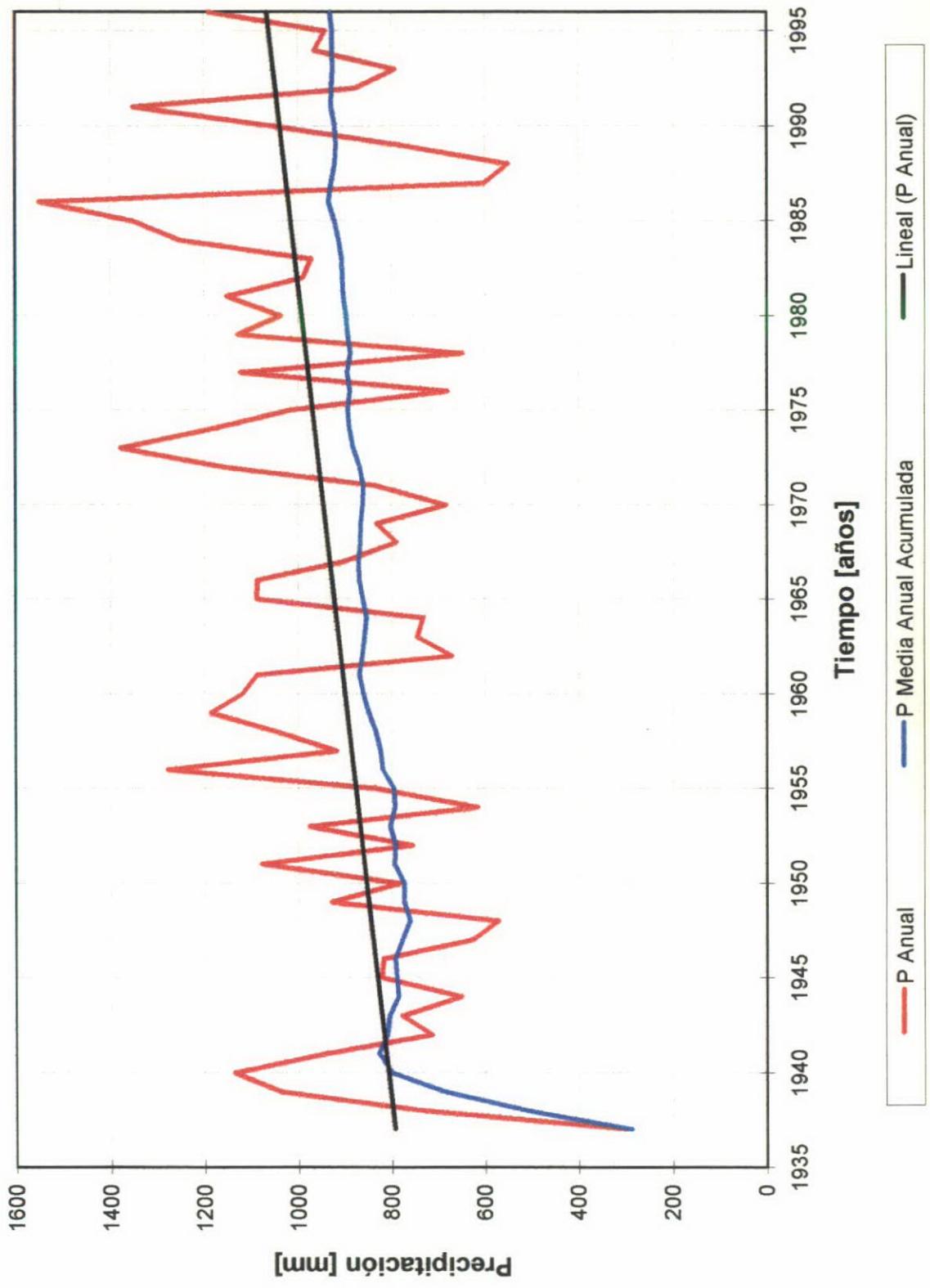
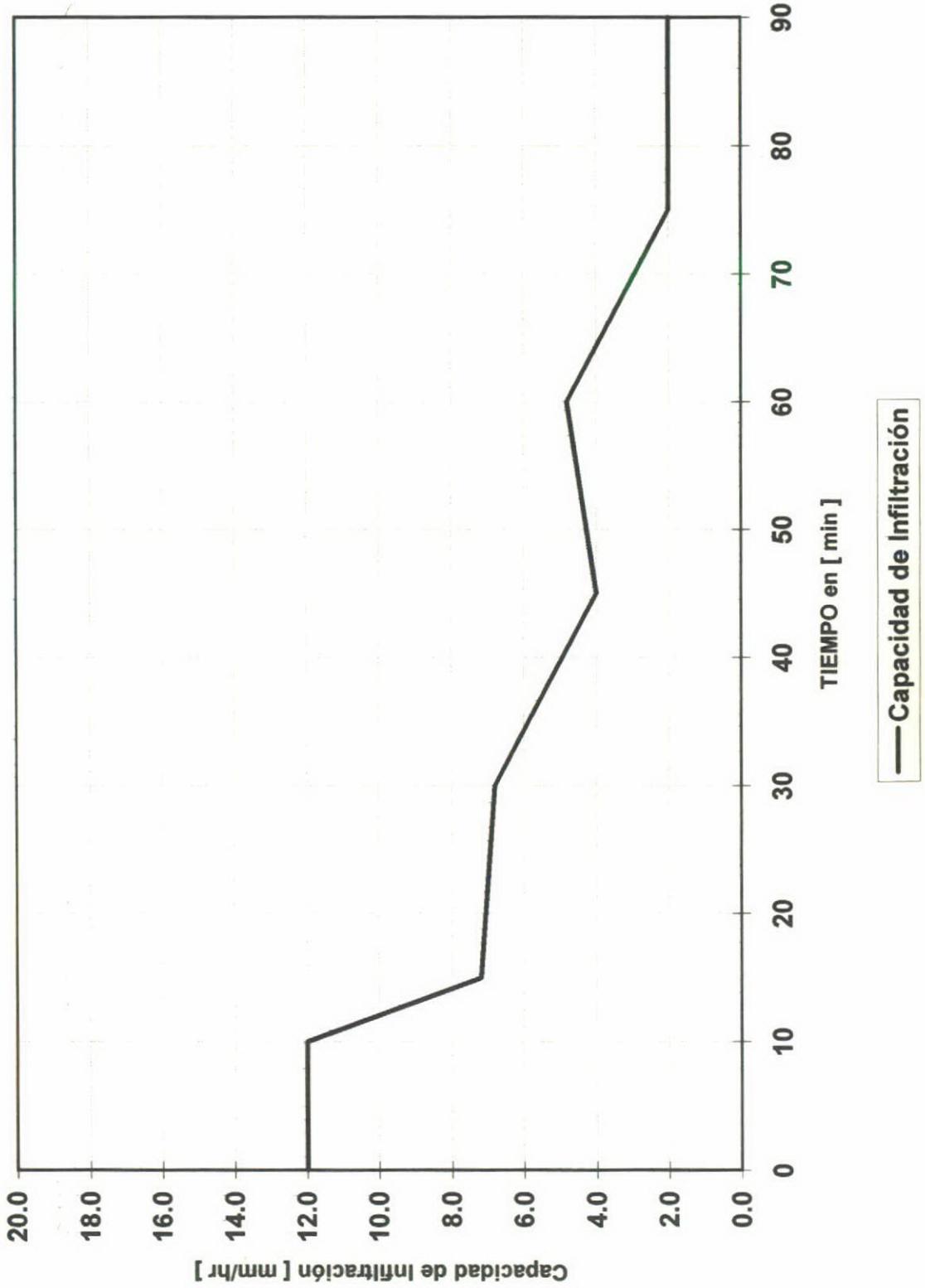


Gráfico N° 4

ENSAYO DE INFILTRACION N° 1

Serie de suelo Guemes



# Gráfico N° 5

ENSAYO DE INFILTRACION N° 2  
Serie de Suelo Flecha

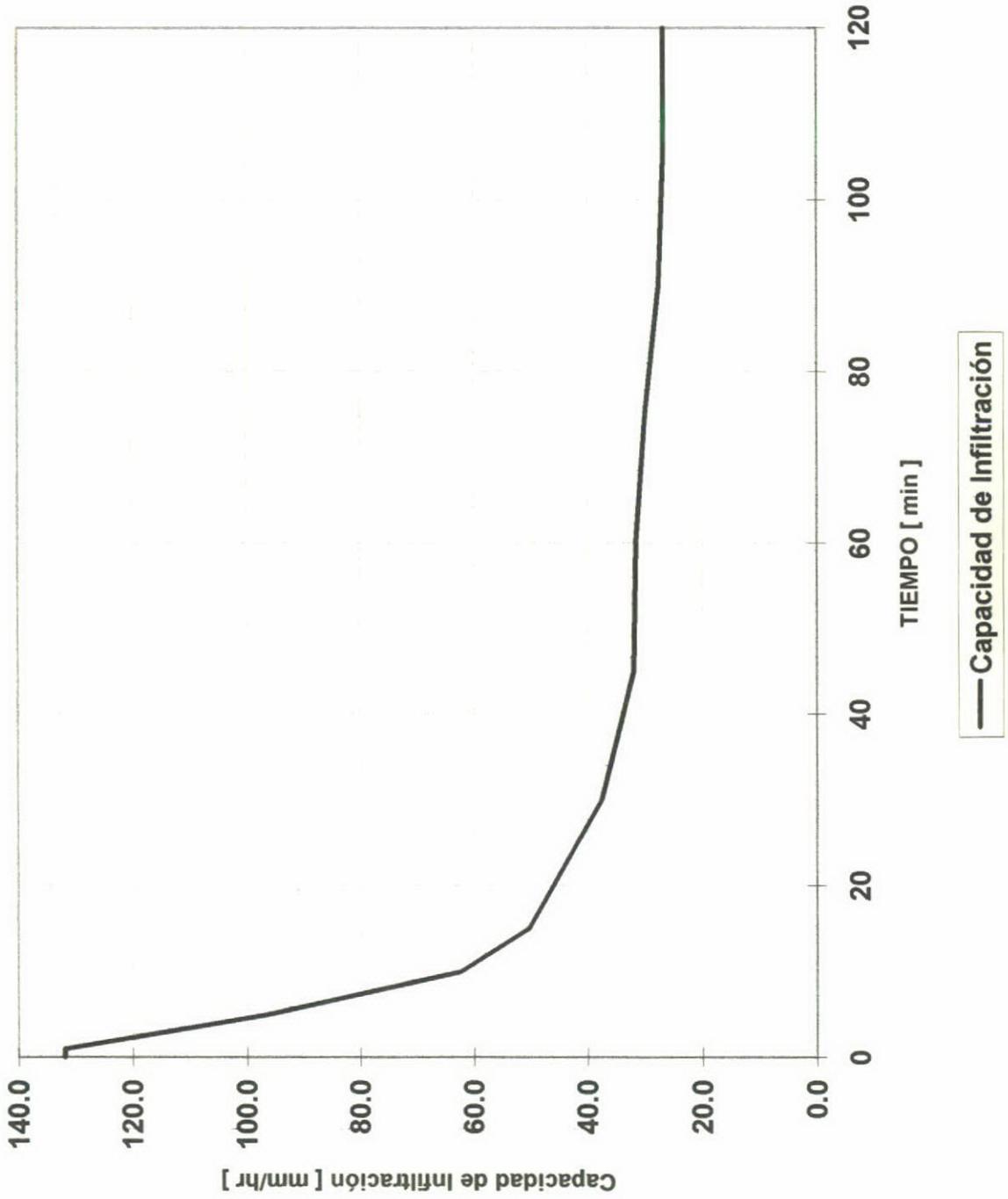
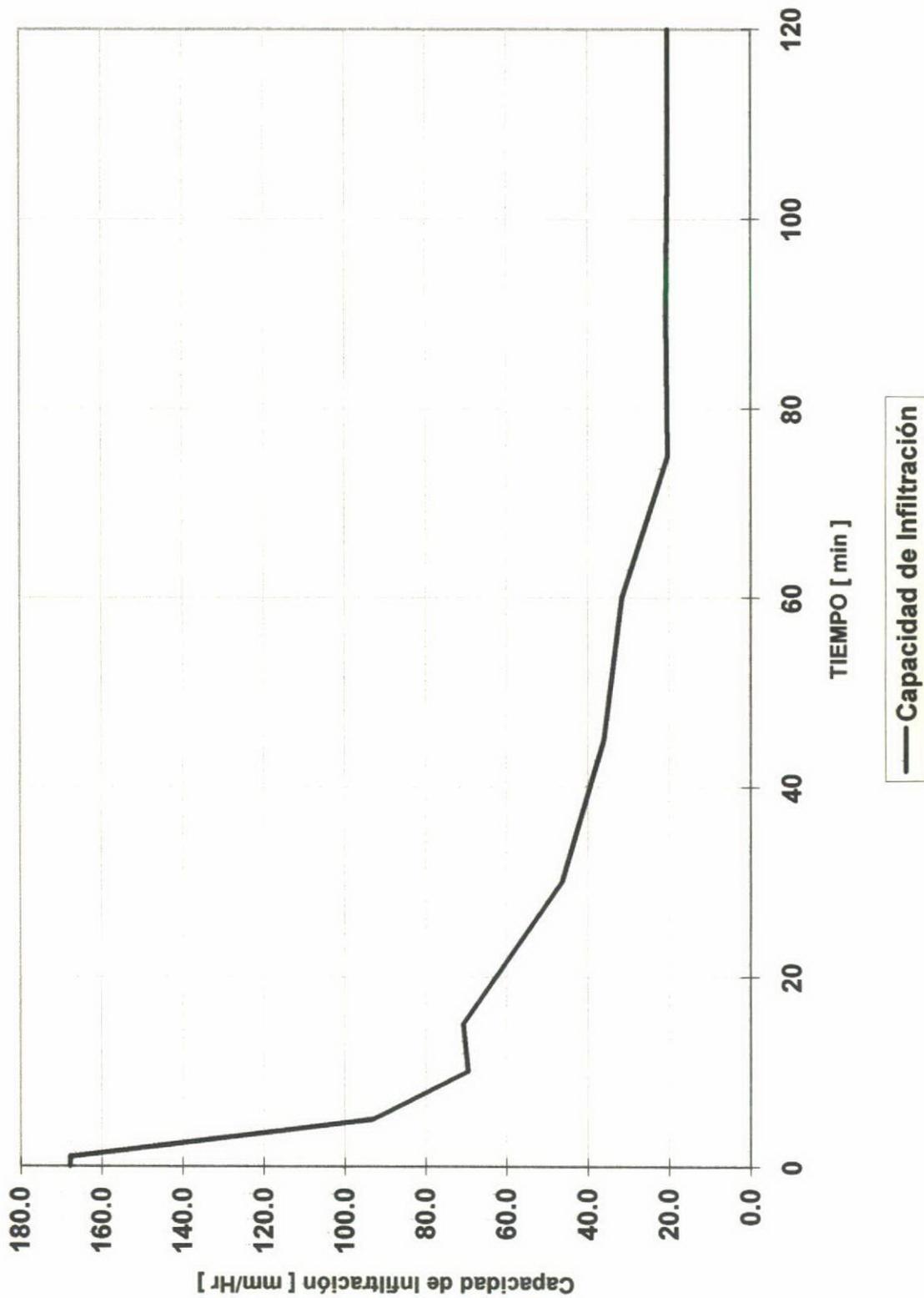


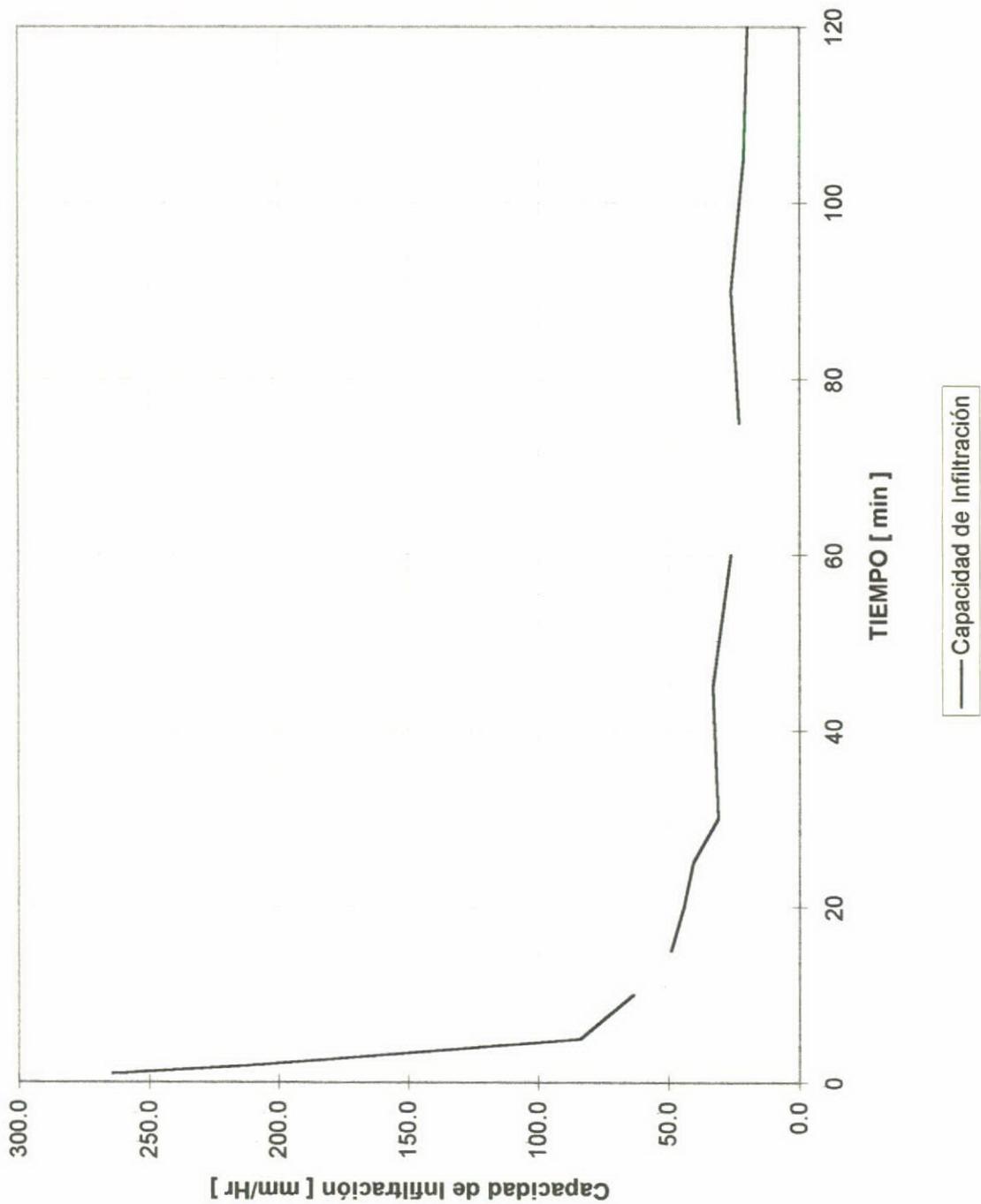
Gráfico N° 6

ENSAYO DE INFILTRACION N°3  
Serie de Suelo Guemes



### Gráfico N° 7

ENSAYO DE INFILTRACION N° 4  
Serie de Suelo Tolosa [ To ]



**ENSAYO DE INFILTRACION N° 1**  
**Serie de Suelo Matanza " Ma "**

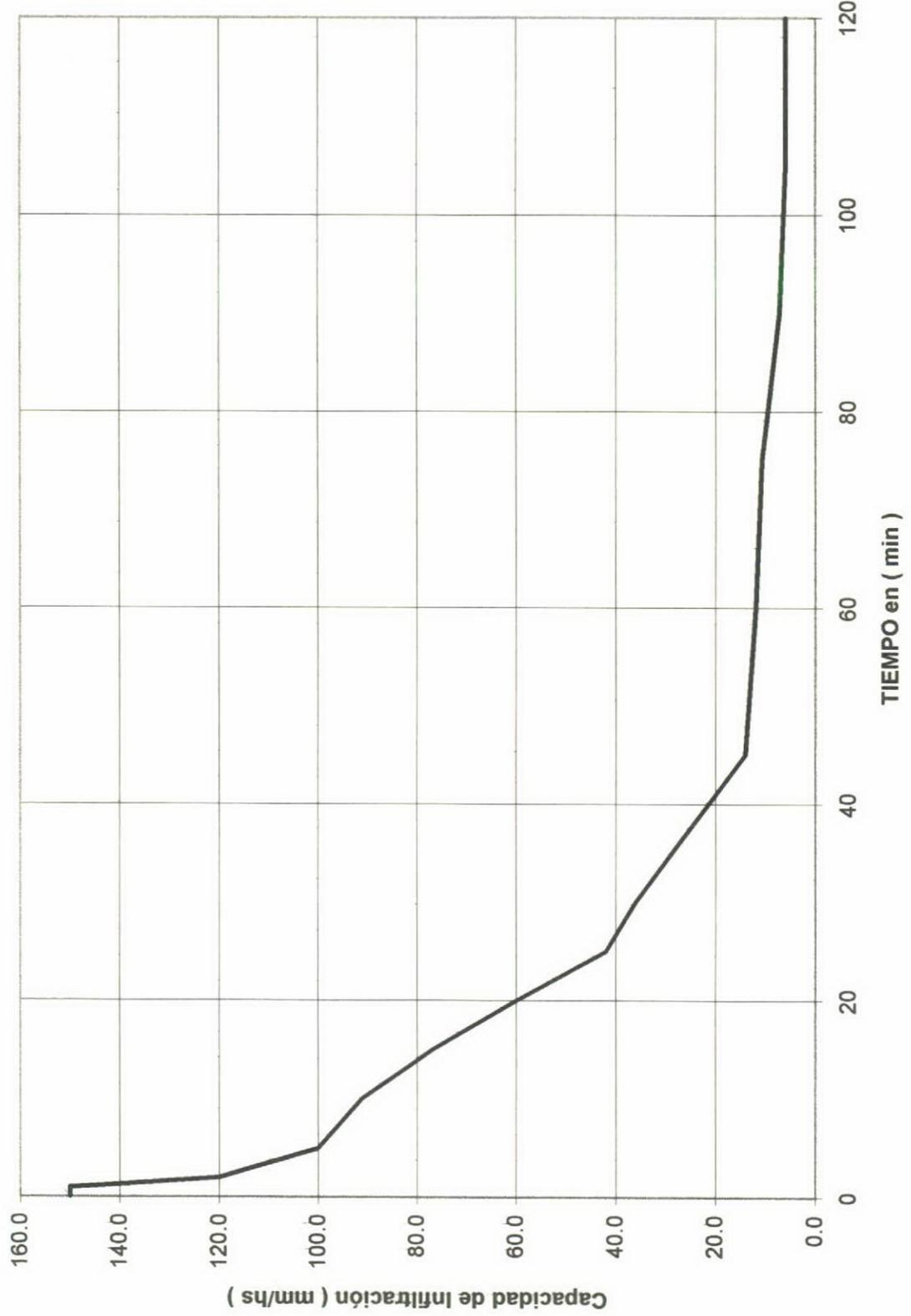


Gráfico N° 9

ENSAYO DE INFILTRACION N° 6  
Serie de Suelo Flecha " Fg"

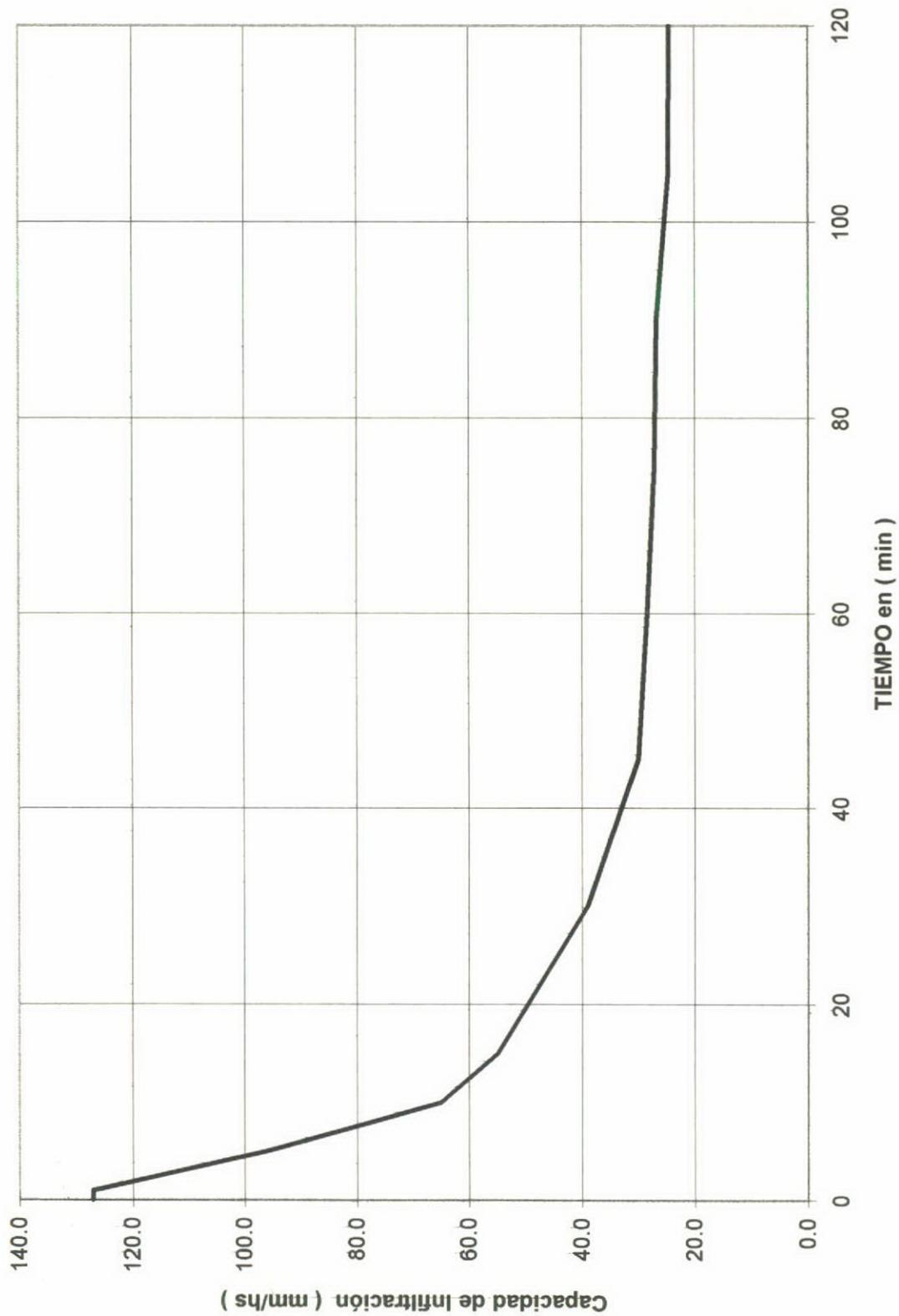
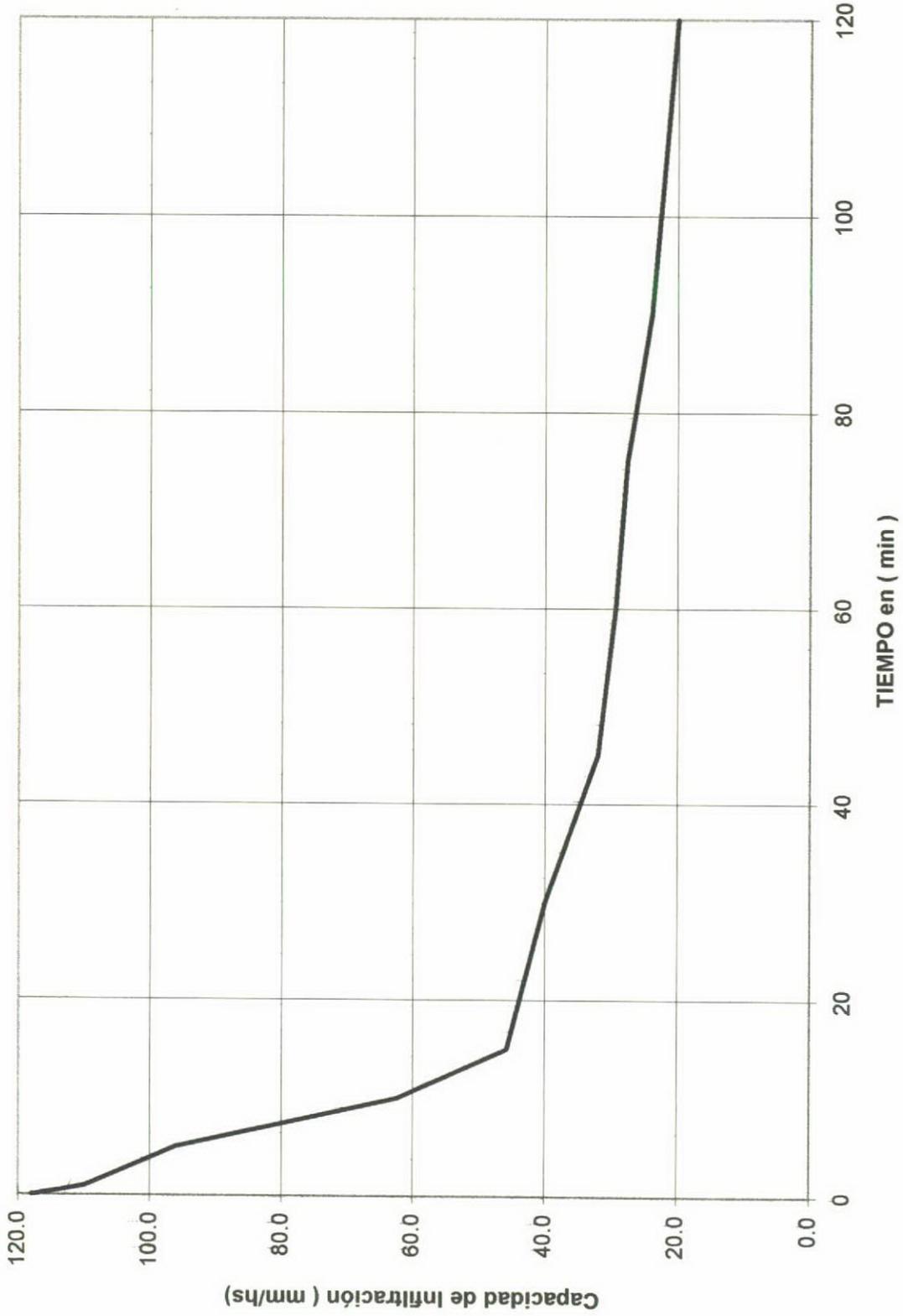
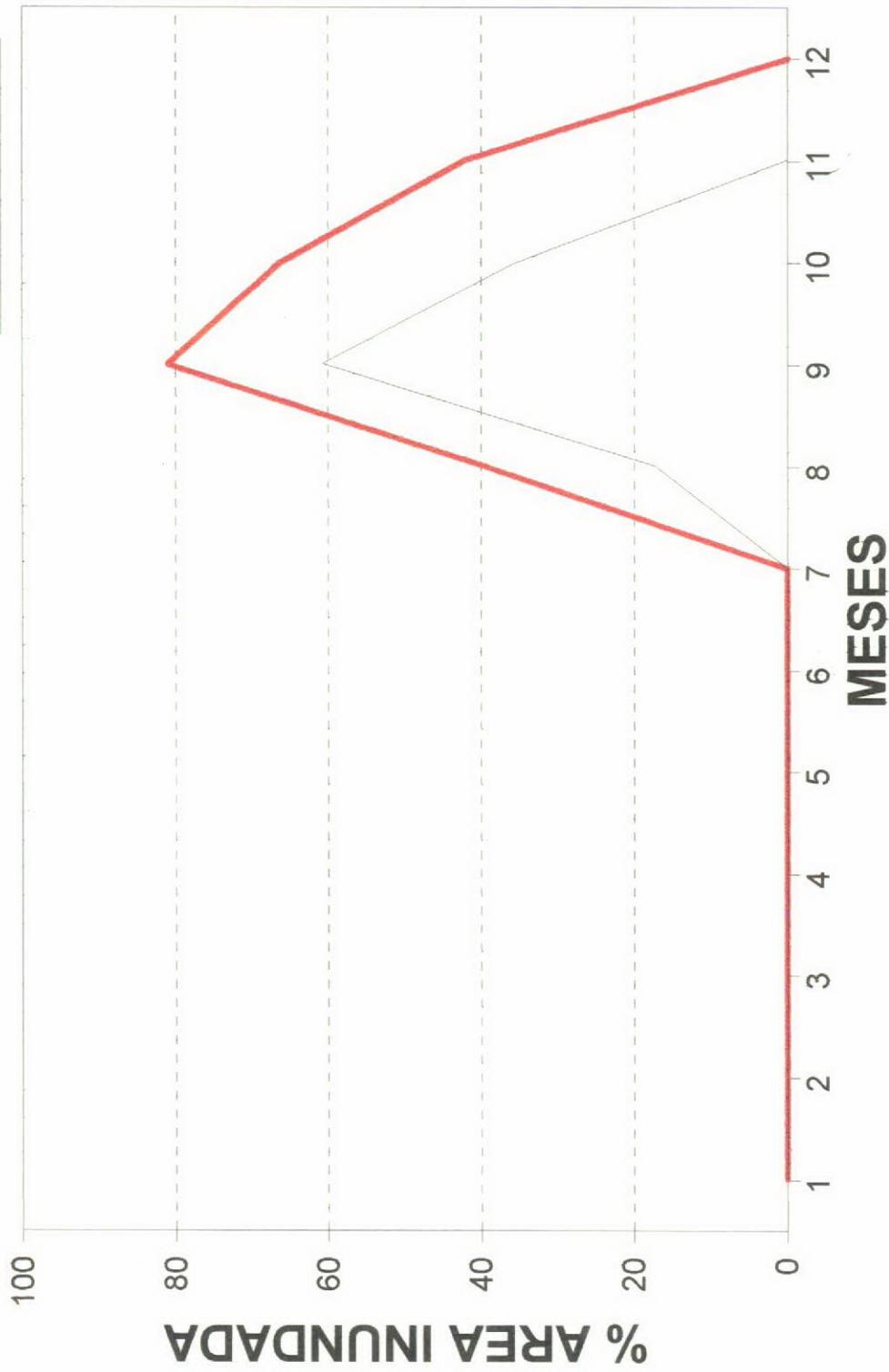


Gráfico N° 10  
ENSAYO DE INFILTRACION N° 7  
Serie de Suelo Ugarte o Caburé " Uch o Cd "



# MODULO 2 - 1991

GRAFICO N° 11



— SIT.NATURAL — SIT.CON OBRAS

# MODULO 4 - 1991

Gráfico N° 12

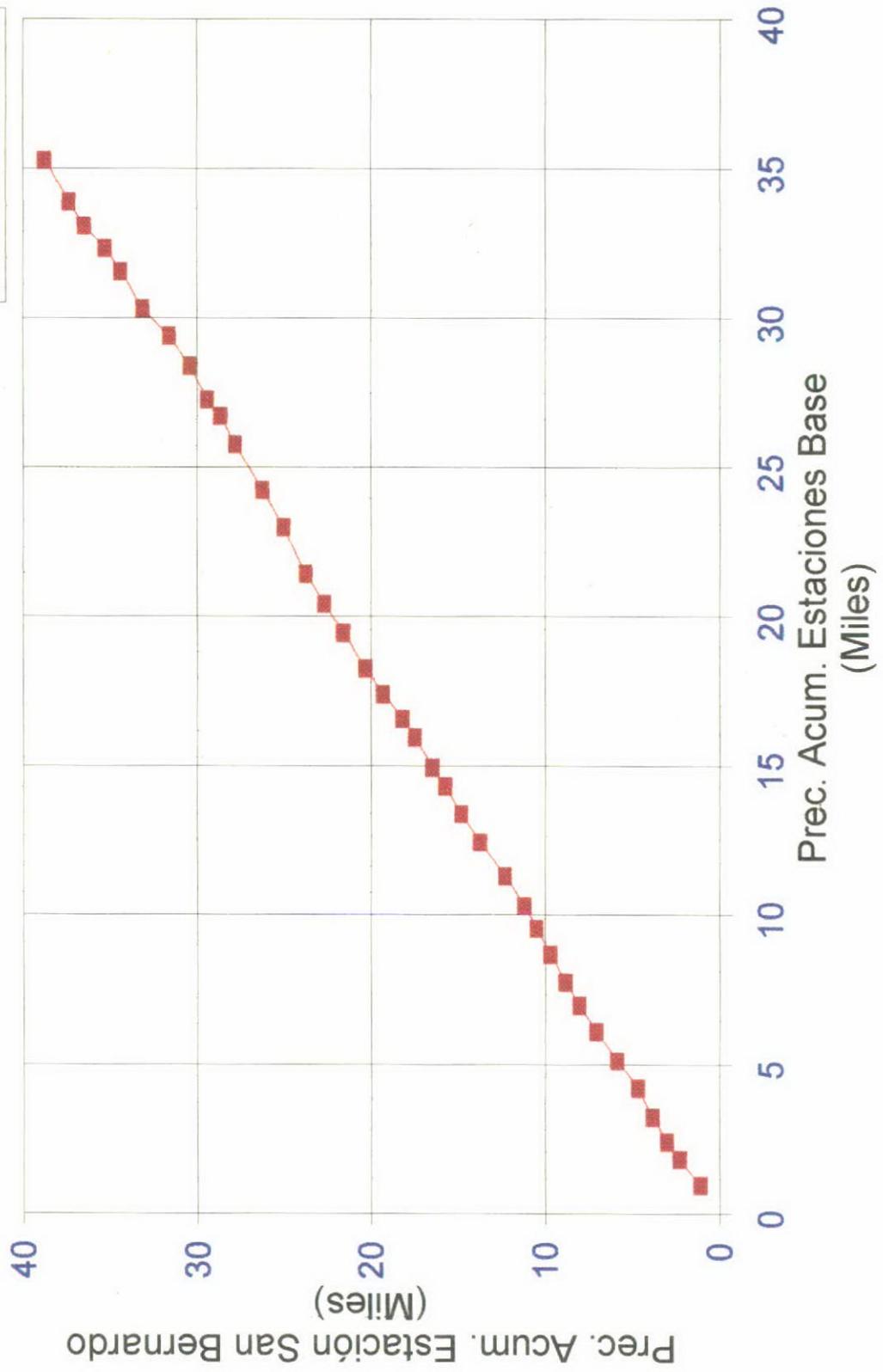


— SIT. NATURAL — SIT. CON OBRAS

# ANALISIS DE DOBLE MASA

Estación Controlada San Bernardo

GRAFICO N° 13



## ANEXO PLANILLAS

PLANILLA N° 1

SUPERFICIES SISTEMA TAPENAGA (km2)

Módulos Hidrológicos	Area Total	Area Saneamiento Directo	Area Saneamiento Diferido	Area Beneficios Emergentes
Saenz Peña	1385	599	786	-
Bajo Hondo	532	465	67	-
Aguará Oeste	922	89	-	833
Aguará Este	656	-	-	656
Tapenagá	440	-	-	440
<b>Total</b>	<b>3935</b>	<b>1153</b>	<b>853</b>	<b>1929</b>

PLANILLA N° 2

SUPERFICIES SISTEMA PARANA (km2)

Módulos Hidrológicos	Area Total	Area Saneamiento Directo		Area Saneamiento Diferido	Area Beneficios Emergentes
		Total	Agrícola		
I	421.1	421.1	202.1	-	-
II	1497.8	870.1	472.9	627.7	-
III	3831.6	1339.5	715.7	2181.3	310.8
Canal tramo III	1370.0	-	-	-	1370.0
Canal tramo IV	1840.0	-	-	-	1840.0
<b>Total</b>	<b>8960.5</b>	<b>2630.7</b>	<b>1390.7</b>	<b>2809.0</b>	<b>3520.8</b>

Estación : SAENZ PEÑA

PLANILLA N° 3

<b>Año</b>	<b>Precip. Anual</b>	<b>Frec. Anual</b>	<b>Precip. Media Acumulada</b>	<b>Frec. Media Acumulada</b>
1930	1190.5	67	1190.5	67
1931	1091.5	51	1141	59
1932	1233.8	61	1171.9	59.7
1933	991.5	50	1126.8	57.3
1934	898.3	49	1081.1	55.6
1935	871.5	34	1046.2	52
1936	397	25	953.4	48.1
1937	393.4	53	883.4	48.8
1938	705	81	863.6	52.3
1939	1441	87	921.4	55.8
1940	1454.7	86	969.8	58.5
1941	984.9	91	971.1	61.3
1942	1086.2	77	979.9	62.5
1943	676	59	958.2	62.2
1944	663	51	938.6	61.5
1945	797.3	40	929.7	60.1
1946	870.2	60	926.2	60.1
1947	695	47	913.4	59.4
1948	984.5	57	917.1	59.3
1949	796.2	63	911.1	59.5
1950	946.7	59	912.8	59.4
1951	1052.1	52	919.1	59.1
1952	871.3	52	917	58.8
1953	1092.1	46	924.3	58.3
1954	913	94	923.9	59.7
1955	991.3	83	926.5	60.6
1956	1363.9	94	942.7	61.8
1957	1228.5	71	952.9	62.1
1958	1018.3	62	955.1	62.1
1959	1388	80	969.6	62.7
1960	1145.2	72	975.2	63
1961	1311.1	70	985.7	63.3
1963	794.2	48	973.9	62.5
1964	906.1	55	971.9	62.3
1965	1292	66	980.8	62.4
1966	1168.3	54	985.9	62.1
1967	1008.2	64	986.5	62.2
1968	847	81	982.9	62.7
1969	810.5	62	978.6	62.7

Estación : SAENZ PEÑA

PLANILLA N° 3  
Continuación

<b>Año</b>	<b>Precip. Anual</b>	<b>Frec. Anual</b>	<b>Precip. Media Acumulada</b>	<b>Frec. Media Acumulada</b>
1970	746	61	972.9	62.6
1971	656.1	62	965.4	62.6
1972	1170.2	81	970.1	63
1973	1359.2	75	979	63.3
1974	1039.5	71	980.3	63.5
1975	929.6	66	979.2	63.5
1976	767.7	59	974.7	63.4
1977	813.7	67	971.4	63.5
1978	726.6	59	966.4	63.4
1979	1256.8	69	972.2	63.5
1980	1027.4	73	973.3	63.7
1981	1191.1	76	977.5	63.9
1982	1222.6	77	982.1	64.2
1983	1119.1	77	984.6	64.4
1984	1127.8	102	987.2	65.1
1985	1080.9	89	988.9	65.5
1986	1695.9	85	1001.3	65.9
1987	921	83	999.9	66.2
1988	950	58	999.1	66
1989	1047.8	85	999.9	66.4
1990	1310.2	90	1005	66.7
1991	1204.7	83	1008.2	67
1992	1506.2	83	1016.1	67.3
1993	1031.2	79	1016.3	67.4
1994	1261.9	76	1020.1	67.6
1995	757.4	73	1016.1	67.7
1996	1284.2	73	1020.1	67.8

Estación : LAS BREÑAS

PLANILLA N° 4

Año	Precip. Anual	Frec. Anual	Precip. Media Acumulada	Frec. Media Acumulada
1937	289.1	25	289.1	25
1938	736.5	49	512.8	37
1939	1037.8	59	687.8	44.3
1940	1137	64	800.1	49.3
1941	940.1	62	828.1	51.8
1942	713.9	57	809.1	52.7
1943	778.3	54	804.7	52.9
1944	651.8	44	785.6	51.8
1945	820.8	48	789.5	51.3
1946	818	61	792.3	52.3
1947	626.2	63	777.2	53.3
1948	572.3	55	760.2	53.4
1949	929.4	67	773.2	54.5
1950	782.3	58	773.8	54.7
1951	1078.6	64	794.1	55.3
1952	754.8	58	791.7	55.5
1953	975.4	57	802.5	55.6
1954	616.1	60	792.1	55.8
1955	834.6	69	794.4	56.5
1956	1278.4	84	818.6	57.9
1957	918.1	72	823.3	58.6
1958	1047.7	85	833.5	59.8
1959	1185.8	84	848.8	60.8
1960	1119	80	860.1	61.6
1961	1086.7	75	869.1	62.2
1962	670.4	59	861.5	62
1963	744.4	88	857.2	63
1964	732.8	61	852.7	62.9
1965	1088.3	69	860.8	63.1
1966	1086.7	67	868.4	63.3
1967	902.2	85	869.5	64
1968	789.2	90	867	64.8
1969	831.3	68	865.9	64.9
1970	683.5	76	860.5	65.2
1971	833	76	859.7	65.5
1972	1159.6	95	868.1	66.3
1973	1378	98	881.8	67.2
1974	1182.2	84	889.7	67.6
1975	1014	87	892.9	68.1
1976	680.1	72	887.6	68.2

Estación : LAS BREÑAS

PLANILLA N° 4  
Continuación

<b>Año</b>	<b>Precip. Anual</b>	<b>Frec. Anual</b>	<b>Precip. Media Acumulada</b>	<b>Frec. Media Acumulada</b>
1978	648.2	60	887.5	68.6
1979	1127.9	84	893.1	69
1980	1035.7	74	896.3	69.1
1981	1151	81	902	69.4
1982	987.9	93	903.9	69.9
1983	971.2	81	905.3	70.1
1984	1251.7	105	912.5	70.9
1985	1352.2	107	921.5	71.6
1986	1550.1	97	934.0	72.1
1987	601		927.5	
1988	550		920.2	
1989	782		917.6	
1990	1048		920.0	
1991	1351		927.9	
1992	876		926.9	
1993	792		924.6	
1994	964		925.2	
1995	940		925.5	
1996	1189		929.9	

Estación : VILLA ANGELA

PLANILLA N° 5

Año	Precip. Anual	Frec. Anual	Precip. Media Acumulada	Frec. Media Acumulada
1947	748.7	47	748.7	47
1948	846.3	42	797.5	44.5
1949	880	52	825	47
1950	969.3	45	861.1	46.5
1951	1181.6	38	925.2	44.8
1953	1369	36	999.2	43.3
1954	890.5	32	983.6	41.7
1955	1125.1	31	1001.3	40.4
1956	1013.1	26	1002.6	38.8
1957	698.3	30	972.2	37.9
1958	1009.8	30	975.6	37.2
1959	874.5	38	967.2	37.3
1960	1026	45	971.7	37.8
1961	1168.2	62	985.7	39.6
1962	771	43	971.4	39.8
1963	897.3	47	966.8	40.3
1964	822.5	46	958.3	40.6
1965	1197.4	58	971.6	41.6
1966	1347	62	991.3	42.6
1967	1081.6	71	995.9	44.1
1968	679.1	61	980.8	44.9
1969	969.6	51	980.3	45.1
1970	908.1	63	977.1	45.9
1971	650	48	963.5	46
1972	1045.9	87	966.8	47.6
1973	1462.2	79	985.8	48.8
1974	1034.2	69	987.6	49.6
1975	844.4	66	982.5	50.2
1976	758.3	50	974.8	50.2
1977	1073.8	77	978.1	51.1
1978	739.2	51	970.4	51.1
1979	947.9	55	969.7	51.2
1980	1033.4	63	971.6	51.5
1981	1405	50	984.4	51.5
1982	1083	38	987.2	51.1
1983	1111	40	990.6	50.8
1984	1444	46	1002.9	50.7

Estación : VILLA ANGELA

PLANILLA N° 5  
Continuación

<b>Año</b>	<b>Precip. Anual</b>	<b>Frec. Anual</b>	<b>Precip. Media Acumulada</b>	<b>Frec. Media Acumulada</b>
1986	1472	49	1020.8	50.7
1987	1113	39	1023.1	50.4
1988	808	32	1017.8	50
1989	1092	40	1019.6	49.7
1990	1168	36	1023	49.4
1991	2000	53	1045.2	49.5
1992	1527	35	1055.9	49.2
1993	837		1051.1	
1994	1308		1056.6	
1995	1240		1060.4	
1996	1601		1071.5	

PLANILLA N° 6

Temperaturas medias mensuales EEA Pcia. R. S. Peña

AÑO	SEP	OCT	NOV	DIC	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO
1955/1956	20.2	20.8	25.0	26.8	25.9	25.6	24.6	19.5	13.7	13.9	15.9	16.2
1956/1957	20.4	22.4	24.5	28.1	27.8	27.0	25.9	20.1	21.1	16.0	12.8	10.9
1957/1958	17.5	21.6	24.9	27.0	28.4	28.8	26.5	21.8	12.5	19.1	19.4	15.0
1958/1959	21.0	23.8	25.3	25.4	27.0	28.5	25.8	21.3	18.4	16.4	18.5	16.1
1959/1960	20.0	22.0	24.9	27.2	28.3	27.3	25.4	21.4	16.6	17.4	16.1	17.9
1960/1961	21.1	23.3	24.6	27.3	28.9	24.9	24.9	22.5	20.9	15.5	17.0	21.2
1961/1962	20.6	25.2	25.9	27.1	26.6	26.3	25.6	21.0	16.6	15.0	11.6	16.8
1962/1963	21.3	21.1	26.8	28.6	29.2	27.0	26.1	22.7	19.5	16.8	19.1	19.4
1963/1964	20.0	24.6	24.5	28.4	30.3	28.6	25.6	22.6	20.8	13.4	14.1	16.9
1964/1965	20.8	21.6	26.0	26.9	27.7	26.2	23.0	20.6	19.4	20.9	16.0	20.4
1965/1966	18.6	24.6	23.7	27.4	30.7	28.2	26.7	22.1	17.8	17.5	17.4	16.0
1966/1967	19.5	23.1	26.8	27.4	26.2	25.5	24.0	21.8	21.8	11.3	16.0	17.2
1967/1968	18.6	24.3	23.0	23.0	25.6	25.6	24.0	17.5	16.1	16.4	17.4	17.8
1968/1969	18.8	22.5	26.5	27.5	26.2	27.0	24.3	20.7	19.5	15.0	17.8	14.6
1969/1970	21.8	21.7	24.6	25.9	27.9	26.5	25.5	24.1	19.6	15.2	15.8	16.1
1970/1971	20.4	21.8	22.8	27.6	26.6	26.2	23.4	19.4	16.1	11.6	17.8	17.0
1971/1972	21.4	21.5	25.2	25.8	27.5	27.0	23.0	19.6	20.7	17.6	14.7	15.4
1972/1973	20.6	21.3	23.3	25.4	27.5	27.0	24.8	21.8	17.6	16.0	12.6	14.1
1973/1974	17.2	21.8	22.8	24.5	27.4	14.7	23.4	20.0	18.1	15.0	17.4	16.1
1974/1975	17.2	21.1	24.1	25.4	27.0	27.7	24.6	21.6	18.2	17.8	14.2	15.3
1975/1976	18.2	21.0	22.7	25.7	27.2	25.3	22.8	19.4	16.4	15.0	15.7	15.8
1976/1977	19.4	22.5	24.9	26.0	26.7	27.2	26.1	21.1	17.0	16.4	17.5	16.9
1977/1978	20.8	23.8	24.3	25.6	27.2	25.8	26.7	20.5	17.5	16.0	18.3	16.0
1978/1979	21.4	24.4	24.9	26.9	29.0	25.8	23.3	19.1	17.2	15.1	17.3	20.2
1979/1980	17.7	23.2	24.0	25.4	26.2	26.7	27.1	23.4	20.0	14.9	14.0	17.4
1980/1981	17.8	22.0	22.2	26.0	25.8	26.7	24.3	21.7	22.2	13.3	15.1	18.6
1981/1982	17.1	21.5	23.7	25.9	26.1	24.8	24.0	21.8	19.0	16.2	16.0	18.8
1982/1983	20.8	21.8	23.4	25.5	27.5	26.0	24.5	20.9	18.2	13.1	13.6	16.2
1983/1984	17.6	22.4	23.4	27.0	26.2	27.2	24.6	19.3	20.3	13.0	16.2	14.0
1984/1985	19.2	24.0	23.7	24.0	25.8	26.5	25.5	21.4	20.4	16.6	15.2	15.8
1985/1986	17.8	22.2	25.5	26.5	27.7	26.4	23.5	23.2	19.6	18.4	16.6	18.2
1986/1987	19.3	22.0	24.4	26.4	26.8	25.4	24.9	21.8	14.6	14.8	17.7	15.2
1987/1988	17.6	21.2	24.0	24.4	26.7	24.5	26.9	20.3	14.0	13.5	13.0	18.0
1988/1989	18.8	22.2	25.6	27.3	27.6	27.5	23.4	20.5	17.6	15.9	13.9	17.4
1989/1990	16.8	21.3	23.8	26.6	26.9	24.8	25.2	22.1	16.7	13.1	13.2	18.5
1990/1991	17.2	23.1	25.6	25.5	25.6	25.0	24.9	21.8	19.3	16.1	14.8	17.5
1991/1992	19.2	20.6	22.3	25.3	25.5	26.3	23.9	20.5	18.3	18.1	11.4	15.2
1992/1993	17.9	20.6	22.0	25.1	27.0	24.0	24.5	21.5	17.1	15.3	13.1	16.6
1993/1994	18.5	23.0	23.2	25.2	26.5	24.2	22.6	20.7	20.4	17.1	15.1	16.5
1994/1995	21.9	22.4	23.4	27.9	26.4	24	23.6	20.1	16.4	16	15.5	16.9
1995/1996	18.2	21.0	22.7	25.7	27.2	25.3	22.8	19.4	16.4	15.0	15.7	15.8
Media	19.3	22.4	24.3	26.3	27.2	26	24.7	21.1	18.2	15.6	15.6	16.8

PLANILLA N° 7

Evaporaciones mensuales EEA Pcia. R. S. Peña

AÑO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	TOTAL
1968			112.3			39.8	56.1	82.9	130.3	122.6	157.5	155.1	856.6
1969	152.1	135.5	108.8	85.8	66.3	63.8	96.8	93.3	150.0	142.9	152.2	161.8	1409.3
1970	195.8	154.6	116.1	118.5	74.1	38.7	80.2	105.0	113.8	146.0	166.9	219.1	1528.8
1971	164.0	155.6	96.5	81.3	67.5	48.5	79.0	90.4	123.8	142.9	176.7	241.5	1467.7
1972	189.3	153.4	104.9	68.1	59.0	33.9	53.6	57.7	110.2	161.3	151.3	156.2	1298.9
1973	131.2	114.0	99.9	64.6	60.4	43.3	48.7	62.1	81.7	119.9	158.8	152.2	1136.8
1974	171.0	89.3	95.3	72.8	59.1	46.8	66.7	70.2	84.7	134.1	137.6	154.8	1182.4
1975	118.1	167.5	110.8	80.3	53.5	53.2	59.0	70.1	85.7	126.1	152.9	164.1	1241.3
1976	141.1	132.5	104.7	103.8	63.6	69.7	86.8	89.4	129.5	152.8	154.2	173.1	1401.2
1977	154.5	134.2	124.8	77.3	52.6	55.1	56.9	93.0	136.4	186.2	132.2	153.9	1357.1
1978	178.0	118.6	157.0	107.5	88.3	60.8	88.6	126.9	173.1	169.8	160.3	163.4	1592.3
1979	215.9	116.5	117.5	60.6	69.2	71.7	84.1	96.7	109.7	139.6	154.6	125.3	1361.4
1980	168.1	166.1	152.5	99.3	57.9	45.2	67.6	92.9	128.7	153.4	101.0	171.7	1404.4
1981	111.7	96.2	125.7	74.8	69.6	41.3	70.4	81.6	98.4	144.0	134.2	169.4	1217.3
1982	169.3	110.0	112.9	82.9	71.5	37.8	42.2	88.5	101.8	121.7	132.0	146.8	1217.4
1983	152.2	128.3	120.7	58.5	39.4	44.2	42.7	80.6	115.4	168.6	148.3	170.6	1269.5
1984	145.0	147.5	91.9	71.3	61.4	27.6	53.7	64.6	98.8	134.3	104.1	145.3	1145.5
1985	141.1	111.6	120.3	65.5	52.3	42.0	59.4	59.2	73.9	119.2	166.6	145.1	1156.2
1986	176.1	126.9	86.2	59.8	57.4	50.1	45.8	80.1	96.4	117.8	121.5	149.6	1167.7
1987	124.2	142.4	129.3	60.3	51.9	58.9	55.6	72.5	111.3	138.0	127.4	147.3	1219.1
1988	145.4	131.2	126.3	73.1	56.2	45.1	71.3	107.4	103.8	162.1	182.6	186.7	1391.2
1989	179.6	160.7	113.7	60.7									514.7
1990													0
1991	136.6	111.7	94.1	72.8	46.0	45.3	67.6	98.8	87.0	129.3	127.8	143.3	1160.3
1992	155.4	117.9	110.3	78.2	48.7	47.5	54.5	82.4	111.9	104.1	110.3	127.9	1149.1
1993	165.0	138.0	112.0	83.0	67.6	55.0	64.1	101.0	122.0	122.0	147.0	157.0	1333.7
1994	256.2	135.3	174.6	105.5	96.1	80.6	100.6	123.5	188.3	156.1	163.6	233.2	1813.6
1995	149.9	122	95.1	97.8	63.5	76	70	93.4	125.6	165.8	209.8	176.4	1445.3
1996	168.1	166.1	152.5	99.3	57.9	45.2	67.6	92.9	128.7	153.4	101.0	171.7	1404.4
Media	161	131.4	115.3	79.4	62.1	50.8	66.2	87.1	115.1	141.6	147.4	165	1322.4

PLANILLA N° 8

Resumen Estudio estadístico. Línea Tapenagá. TR [años]

**a) Precipitaciones máximas**

	1981		1984		1986		1991	
	30 d.	P. ant.						
P. R. S. Peña	4	54	4	14	116	26	5	1
Est. Media L. Tapenagá	3	54	6	14	15	26	6	1

30 d. = Precipitación máxima en 30 días.

P. ant. = Precipitación antecedente a precipitación máxima en 30 días.

**b) Caudales Máximos - R. N. N° 89 - Río Tapenagá**

Qmáx. R. N. N° 89	1981	1984	1986	1991
Río Tapenagá	TR = 4 años	TR = 8 años	TR = 16 años	TR = 4 años

## Cálculo de Máximos en 30 Días , año hidrológico

Estación : 6 41 VILLA ANGELA Ente : 8

Año	Máximo	Fecha Inicial	Fecha Final	Interrup. Período	Interrup. en el Año	
01/09/946	31/08/947	152.0	07/02/947	06/03/947	No	No
01/09/947	31/08/948	216.5	09/01/948	05/02/948	No	No
01/09/948	31/08/949	239.7	09/12/948	05/01/949	No	No
01/09/949	31/08/950	404.6	01/02/950	27/02/950	No	No
01/09/950	31/08/951	284.5	29/01/951	23/02/951	No	No
01/09/951	31/08/952	246.0	10/11/951	09/12/951	No	No
01/09/952	31/08/953	394.0	20/03/953	14/04/953	No	No
01/09/953	31/08/954	380.0	11/12/953	06/01/954	No	No
01/09/954	31/08/955	396.0	02/03/955	29/03/955	No	No
01/09/955	31/08/956	269.0	12/11/955	10/12/955	No	No
01/09/956	31/08/957	289.0	07/10/956	22/10/956	No	No
01/09/957	31/08/958	212.0	14/02/958	11/03/958	No	No
01/09/958	31/08/959	387.0	28/11/958	27/12/958	No	No
01/09/959	31/08/960	252.4	29/03/960	19/04/960	No	No
01/09/960	31/08/961	425.3	15/02/961	16/03/961	No	No
01/09/961	31/08/962	216.8	19/11/961	15/12/961	No	No
01/09/962	31/08/963	198.7	22/01/963	19/02/963	No	No
01/09/963	31/08/964	220.7	15/02/964	07/03/964	No	No
01/09/964	31/08/965	325.2	02/02/965	01/03/965	No	No
01/09/965	31/08/966	379.7	17/02/966	18/03/966	No	No
01/09/966	31/08/967	244.2	24/02/967	20/03/967	No	No
01/09/967	31/08/968	152.0	20/01/968	12/02/968	No	No
01/09/968	31/08/969	274.6	20/12/968	18/01/969	No	No
01/09/969	31/08/970	182.2	08/03/970	02/04/970	No	No
01/09/970	31/08/971	244.8	19/02/971	19/03/971	No	No
01/09/971	31/08/972	290.5	07/03/972	03/04/972	No	No
01/09/972	31/08/973	358.5	21/02/973	17/03/973	No	No
01/09/973	31/08/974	389.6	02/02/974	03/03/974	No	No
01/09/974	31/08/975	158.6	01/03/975	28/03/975	No	No
01/09/975	31/08/976	232.3	20/02/976	20/03/976	No	No
01/09/976	31/08/977	291.9	26/02/977	25/03/977	No	No
01/09/977	31/08/978	173.6	23/10/977	21/11/977	No	No
01/09/978	31/08/979	224.2	10/11/978	09/12/978	No	No
01/09/979	31/08/980	355.8	09/12/979	06/01/980	No	No
01/09/980	31/08/981	575.0	17/01/981	14/02/981	No	No
01/09/981	31/08/982	211.0	17/01/982	13/02/982	No	No
01/09/982	31/08/983	378.0	17/03/983	13/04/983	No	No
01/09/983	31/08/984	554.0	16/03/984	11/04/984	No	No
01/09/984	31/08/985	447.0	25/01/985	20/02/985	No	No
01/09/985	31/08/986	570.0	11/03/986	08/04/986	No	No
01/09/986	31/08/987	235.0	09/04/987	01/05/987	No	No
01/09/987	31/08/988	331.0	26/10/987	24/11/987	No	No
01/09/988	31/08/989	341.0	29/03/989	16/04/989	No	No
01/09/989	31/08/990	258.0	02/12/989	27/12/989	No	No
01/09/990	31/08/991	615.0	10/04/991	04/05/991	No	No
01/09/991	31/08/992	354.0	05/12/991	02/01/992	No	No
01/09/992	31/08/993	163.0	15/11/992	01/12/992	No	No

## Cálculo de Máximos en 30 Días , año hidrológico

Estación : 6 18 SANTA SILVINA

Ente : 16

Año	Máximo	Fecha Inicial	Fecha Final	Interrup. Período	Interrup. en el Año	
01/09/953	31/08/954	107.0	17/02/954	04/03/954	No	No
01/09/954	31/08/955	398.0	07/02/955	03/03/955	No	No
01/09/955	31/08/956	352.1	27/02/956	22/03/956	No	No
01/09/956	31/08/957	238.6	18/10/956	16/11/956	No	No
01/09/957	31/08/958	239.8	14/02/958	14/03/958	No	No
01/09/958	31/08/959	376.4	22/11/958	18/12/958	No	No
01/09/959	31/08/960	240.8	18/03/960	15/04/960	No	No
01/09/960	31/08/961	274.0	05/10/960	03/11/960	No	No
01/09/961	31/08/962	204.0	09/12/961	01/01/962	No	No
01/09/962	31/08/963	212.5	09/02/963	10/03/963	No	No
01/09/963	31/08/964	189.0	08/02/964	06/03/964	No	No
01/09/964	31/08/965	188.7	20/12/964	17/01/965	No	No
01/09/965	31/08/966	293.5	23/11/965	20/12/965	No	No
01/09/966	31/08/967	208.0	23/02/967	20/03/967	No	No
01/09/967	31/08/968	152.5	19/01/968	12/02/968	No	No
01/09/968	31/08/969	189.5	19/12/968	17/01/969	No	No
01/09/969	31/08/970	194.0	08/01/970	05/02/970	No	No
01/09/970	31/08/971	244.5	13/12/970	11/01/971	No	No
01/09/971	31/08/972	330.0	06/03/972	02/04/972	No	No
01/09/972	31/08/973	429.2	07/02/973	07/03/973	No	No
01/09/973	31/08/974	513.0	06/02/974	27/02/974	No	No
01/09/974	31/08/975	218.0	19/02/975	12/03/975	No	No
01/09/975	31/08/976	323.0	01/01/976	29/01/976	No	No
01/09/976	31/08/977	337.0	26/02/977	23/03/977	No	No
01/09/977	31/08/978	262.0	08/01/978	02/02/978	No	No
01/09/978	31/08/979	206.0	06/02/979	07/03/979	No	No
01/09/979	31/08/980	303.0	09/12/979	07/01/980	No	No
01/09/980	31/08/981	603.0	21/01/981	19/02/981	No	No
01/09/981	31/08/982	166.0	25/10/981	22/11/981	No	No
01/09/982	31/08/983	288.0	19/11/982	18/12/982	No	No
01/09/983	31/08/984	308.0	29/02/984	29/03/984	No	No
01/09/984	31/08/985	360.0	21/01/985	19/02/985	No	No
01/09/985	31/08/986	525.0	11/03/986	09/04/986	No	No
01/09/986	31/08/987	253.0	13/12/986	10/01/987	No	No
01/09/987	31/08/988	334.0	03/11/987	02/12/987	No	No
01/09/988	31/08/989	275.0	25/03/989	16/04/989	No	No
01/09/989	31/08/990	274.0	13/01/990	09/02/990	No	No
01/09/990	31/08/991	283.0	28/10/990	26/11/990	No	No
01/09/991	31/08/992	281.0	11/12/991	07/01/992	No	No
01/09/992	31/08/993	145.0	16/10/992	14/11/992	No	No

## Cálculo de Máximos en 30 Días , año hidrológico

Estación : 6 7 GRAL. PINEDO Ente : 16

Año	Máximo	Fecha Inicial	Fecha Final	Interrup. Período	Interrup. en el Año
01/09/955	31/08/956	246.0	08/01/956	05/02/956	No No
01/09/956	31/08/957	185.0	19/10/956	16/11/956	No No
01/09/957	31/08/958	283.0	14/02/958	14/03/958	No No
01/09/958	31/08/959	226.0	08/11/958	07/12/958	No No
01/09/959	31/08/960	239.0	17/03/960	15/04/960	No No
01/09/960	31/08/961	244.0	15/02/961	16/03/961	No No
01/09/961	31/08/962	243.0	18/11/961	15/12/961	No No
01/09/962	31/08/963	183.0	21/01/963	19/02/963	No No
01/09/963	31/08/964	259.0	08/02/964	06/03/964	No No
01/09/964	31/08/965	241.0	01/02/965	01/03/965	No No
01/09/965	31/08/966	307.0	20/01/966	18/02/966	No No
01/09/966	31/08/967	267.0	26/03/967	20/04/967	No No
01/09/967	31/08/968	207.0	08/01/968	06/02/968	No No
01/09/968	31/08/969	272.0	05/02/969	02/03/969	No No
01/09/969	31/08/970	115.0	24/09/969	21/10/969	No No
01/09/970	31/08/971	297.0	15/12/970	11/01/971	No No
01/09/971	31/08/972	313.0	07/03/972	02/04/972	No No
01/09/972	31/08/973	278.0	18/01/973	13/02/973	No No
01/09/973	31/08/974	361.0	22/01/974	20/02/974	No No
01/09/974	31/08/975	188.0	02/03/975	29/03/975	No No
01/09/975	31/08/976	303.0	10/01/976	04/02/976	No No
01/09/976	31/08/977	231.0	09/02/977	08/03/977	No No
01/09/977	31/08/978	227.0	19/11/977	18/12/977	No No
01/09/978	31/08/979	288.0	06/02/979	07/03/979	No No
01/09/979	31/08/980	269.0	04/04/980	29/04/980	No No
01/09/980	31/08/981	343.0	16/01/981	14/02/981	No No
01/09/981	31/08/982	190.0	17/01/982	14/02/982	No No
01/09/982	31/08/983	303.0	26/11/982	21/12/982	No No
01/09/983	31/08/984	335.0	29/02/984	28/03/984	No No
01/09/984	31/08/985	438.0	21/01/985	19/02/985	No No
01/09/985	31/08/986	629.0	11/03/986	09/04/986	No No
01/09/986	31/08/987	155.0	22/09/986	17/10/986	No No
01/09/987	31/08/988	307.0	26/10/987	24/11/987	No Si
01/09/988	31/08/989	246.0	30/03/989	28/04/989	No No
01/09/989	31/08/990	238.0	13/01/990	10/02/990	No No
01/09/990	31/08/991	198.0	10/04/991	04/05/991	No No
01/09/991	31/08/992	262.0	05/12/991	02/01/992	No No

## Cálculo de Máximos en 30 Días , año hidrológico

Estación : 6 32 SAN BERNARDO

Ente : 16

Año	Máximo	Fecha Inicial	Fecha Final	Interrup. Período	Interrup. en el Año	
01/09/960	31/08/961	309.0	11/02/961	12/03/961	No	No
01/09/961	31/08/962	215.0	21/11/961	20/12/961	No	No
01/09/962	31/08/963	240.0	21/01/963	19/02/963	No	Si
01/09/963	31/08/964	320.0	07/04/964	27/04/964	No	Si
01/09/964	31/08/965	150.0	02/02/965	01/03/965	No	No
01/09/965	31/08/966	326.0	18/11/965	16/12/965	No	No
01/09/966	31/08/967	268.0	31/12/966	16/01/967	No	No
01/09/967	31/08/968	247.0	09/01/968	06/02/968	No	No
01/09/968	31/08/969	259.0	05/02/969	03/03/969	No	No
01/09/969	31/08/970	237.0	24/09/969	22/10/969	No	No
01/09/970	31/08/971	312.0	19/02/971	19/03/971	No	No
01/09/971	31/08/972	420.0	07/03/972	02/04/972	No	No
01/09/972	31/08/973	316.0	13/11/972	10/12/972	No	No
01/09/973	31/08/974	259.0	18/04/974	10/05/974	No	No
01/09/974	31/08/975	206.0	01/03/975	30/03/975	No	Si
01/09/975	31/08/976	270.0	20/02/976	20/03/976	No	Si
01/09/976	31/08/977	307.0	22/02/977	23/03/977	No	No
01/09/977	31/08/978	167.0	03/02/978	27/02/978	No	No
01/09/978	31/08/979	249.0	23/01/979	20/02/979	No	No
01/09/979	31/08/980	238.0	03/12/979	30/12/979	No	No
01/09/980	31/08/981	324.0	02/02/981	03/03/981	No	No
01/09/981	31/08/982	207.0	17/01/982	14/02/982	No	No
01/09/982	31/08/983	459.0	31/03/983	29/04/983	No	No
01/09/983	31/08/984	674.0	16/03/984	14/04/984	No	No
01/09/984	31/08/985	319.0	26/01/985	20/02/985	No	No
01/09/985	31/08/986	618.0	10/03/986	08/04/986	No	No
01/09/987	31/08/988	143.0	13/03/988	07/04/988	No	No
01/09/988	31/08/989	503.0	25/03/989	16/04/989	No	No
01/09/989	31/08/990	199.0	02/12/989	26/12/989	No	No
01/09/990	31/08/991	336.0	19/03/991	16/04/991	No	No
01/09/993	31/08/994	118.0	17/02/994	16/03/994	No	No

**PLANILLA N° 13: Estudio estadístico. Línea Paraná. TR [años]  
Precipitaciones máximas**

	1981			1984			1986			1991		
	15 d.	30 d.	P. ant.	15 d.	30 d.	P. ant.	15 d.	30 d.	P. ant.	15 d.	30 d.	P. ant.
V. Angela	43	32	5	17	26	3	18	31	2	41	50	6
Las Breñas	8	2	-	3	5	-	65	164	-	-	-	-
San Bernardo	2	3	-	30	54	-	47	36	-	3	4	-
Gral. Pinedo	10	7	-	6	6	-	135	625	-	1	1	-
Sta. Sylvina	49	83	-	3	3	-	16	34	-	2	2	-
Est. Media L. Paraná	-	12	5	-	20	3	-	73	2	-	5	6

15 d. = Precipitación máxima en 15 días.

30 d. = Precipitación máxima en 30 días.

P. ant. = Precipitación antecedente a precipitación máxima en 30 días.

PLANILLA N° 15

LUGAR : **San Bernardo**  
Profundidad de Ensayo: **Superficie**  
Serie de Suelo: **Ma Matanza**

FECHA DEL ENSAYO 21/10/96  
HORA DE INICIO 08:30 AM  
HORA DE FINALIZACION 10:30 AM

Tiempo Total min	Altura H cm	Delta T min	Delta H cm	Altura Acumulada cm	Capacidad de Infiltración
0	25.35				
1	25.10	1	0.25	0.25	150.00
2	24.90	1	0.20	0.45	120.00
5	24.40	3	0.50	0.95	100.00
10	23.64	5	0.76	1.71	91.20
12.5	25.00				
15	24.50	2.5	0.50	2.21	76.92
20	24.00	5	0.50	2.71	60.00
25	23.65	5	0.35	3.06	42.00
30	23.35	5	0.30	3.36	36.00
45	23.00	15	0.35	3.71	14.00
60	22.70	15	0.30	4.01	12.00
60	25.00				
75	24.73	15	0.27	4.28	10.80
90	24.55	15	0.18	4.46	7.20
105	24.40	15	0.15	4.61	6.00
120	24.25	15	0.15	4.76	6.00

OBSERVACIONES:

Ensayo realizado con Doble Anillo y como herramienta de lectura un Limnómetro de punta.

Datos de Laboratorio: Humedad del suelo a 35 cm del nivel de T.N. 26 % en Peso

PLANILLA N° 16

Adecuación. R. N. N° 95. La Tigra - P. R. S. Peña. Octubre 1986.

Alc. N°	Progresiva	L (.) [m]	H [m]	Cotas de Desagüe [m]	Caudal de diseño [m3/seg] (*)	Observaciones
1	1860	2 * 2.00	1.5	85	9.8	Alcantarilla nueva
2 (E)	4268	1.45	1.3	85.35	2.83	Bajar platea 0.70 m
2	4300	2	1.5	85.18	4.8	Alcantarilla nueva
3	5830	2	1.5	85.38	4.8	Alcantarilla nueva
4	7970	2	1.5	85.48	4.8	Alcantarilla nueva
5 (E)	8774.25	0.95	1.2	86.15	1.75	Bajar platea 0.50 m
6 (E)	1130.9	2 * 1.50	1.3	86.2	6.3	Bajar platea 0.50 m
5	11720	2	1.5	86.23	4.8	Alcantarilla nueva
6	14100	2	1.5	86.25	4.8	Alcantarilla nueva
10 (E)	15364.4	1	1.2	86.55	1.8	Bajar platea 0.70 m
7	15543	2	1.5	86.3	4.8	Alcantarilla nueva
12 (E)	21016.7	1.5	1.2	87.83	2.8	Bajar platea 0.60 m
8	22325	2 * 2.00	2	87.5	13.2	Alc. nueva Canal B.H. I
13 (E)	22316	2	1.3	87.8	4.2	Bajar platea 0.50 m
9	25250	2	1.5	88.25	4.8	Alcantarilla nueva
10	27812	2 * 2.00	2	86.5	13.2	Alc. nueva Canal B.H. II
11	19650	2	1.5	87.5	4.8	Alcantarilla nueva
12	31100	2	1.5	87.25	4.8	Alcantarilla nueva
17 (E)	31277.5	1.4	1.25	87.06	2.75	Bajar platea 0.70 m
13	31550	2 * 2.00	1.75	87.6	11.6	Alc. nueva Canal D. pluvial

Q total 113.43

- (\*) Calculado para una carga de 0.20 m  
(E) Alcantarilla existente a modificar  
(.) La altura útil indicada incluye la modificación de la platea en las alcantarillas existentes.

PLANILLA N° 17

Adecuación. R. N. N° 95. La Tigra. - P. R. S. Peña. Diciembre 1990.

Progresivas [m]	L [m]	H [m]	Modificaciones
-600	1 * 2	Verificar	C.D.=85.60 - Existente
			Bajar platea si es necesario (Ah = 0.75)
1325	2 * 2	1.75	Levantar C.D. 0.10 m
1500	2 * 2	1.75	Levantar C.D. 0.05 m
1800	2 * 2	1.75	Levantar C.D. 0.20 m
3800	1 * 2	1.5	Levantar C.D. 0.10 m
4300	2 * 2	2	Levantar C.D. 0.10 m
6740	1 * 2	1.25	Verificar ubicación y C.D.
9000	1 * 2	2	Levantar C.D. 0.20 m
10600	1 * 2	2	Verificar ubicación y C.D.
11335	4 * 2	2.5	Ampliar L (1 tramo) y H. C.D. = 86.10 m
12010	4 * 2	2.5	Ampliar L (1 tramo) y H. C.D. = 86.00 m
12800	2 * 2	2	Levantar C.D. 0.30 m
14100	2 * 2	1.75	Levantar C.D. 0.15 m
17800	2 * 2	1.5	Levantar C.D. 0.10 m
21200	2 * 2	2	Levantar C.D. 0.30 m
25400	1 * 2	2	Levantar C.D. 0.50 m
25800	1 * 2	2	Levantar C.D. 0.60 m
31270	1 * 2	2	Levantar C.D. 0.20 m
32540	2 * 2	2	Levantar C.D. 0.10 m





## Cuenca : CANAL NORTE SAN BERNARDO

PLANILLA Nro 20

## RESUMEN DE PRECIPITACIONES EN mm

AÑO HIDRO	SEP	OCT.	NOV	DIC	ENE.	FEB	MAR	ABR.	MAY	JUN	JUL	AGO.
1960/1961	25	175	150	140	21	217	220	195	35	20	2	22
1961/1962	13	102	110	148	158	68	85	88	12	7	28	30
1962/1963	0	69	47	157	82	201	15	59	20	0	22	0
1963/1964	130	83	75	134	28	115	218	320	33	17	10	30
1964/1965	101	35	81	60	35	100	110	110	8	0	15	39
1965/1966	69	188	128	223	212	259	156	48	100	0	16	0
1966/1967	65	48	135	14	262	195	118	40	85	19	0	20
1967/1968	45	39	81	43	212	75	46	94	18	40	45	56
1968/1969	0	45	70	24	176	243	24	87	45	0	33	0
1969/1970	97	170	30	49	120	92	78	78	111	0	31	85
1970/1971	76	56	171	16	50	54	278	83	171	0	46	24
1971/1972	15	79	48	61	62	25	379	81	24	37	53	7
1972/1973	12	87	172	206	253	34	266	149	6	87	65	19
1973/1974	8	82	102	116	143	38	31	213	122	4	0	5
1974/1975	19	39	12	14	30	66	206	101	70	2	23	13
1975/1976	46	195	30	22	165	68	263	8	6	2	7	6
1976/1977	24	83	78	92	174	82	299	79	57	6	12	34
1977/1978	46	75	145	70	80	167	22	34	3	12	0	0
1978/1979	41	96	158	90	98	176	84	71	0	0	57	24
1979/1980	48	65	238	43	164	101	189	99	28	0	0	41
1980/1981	41	174	91	174	290	154	83	102	15	11	24	0
1981/1982	8	47	101	111	151	85	102	107	5	70	17	1
1982/1983	74	56	105	198	159	128	90	393	84	1	48	9
1983/1984	16	18	101	121	233	253	539	172	41	28	5	12
1984/1985	50	103	136	134	150	235	69	172	35	4	13	67
1985/1986	77	72	28	118	32	88	493	239	90	46	52	13
1986/1987	231	114	73	127	145	52	73	96	82	2	34	16
1987/1988	55	25	237	115	112	36	117	80	7	11	18	0
1988/1989	14	33	44	100	39	47	223	434	0	17	46	14
1989/1990	28	52	36	199	103	90	91	184	63	18	11	0
1990/1991	30	225	54	130	153	51	176	253	288	7	16	10
1991/1992	106	91	54	164	107	142	101	147	28	83	40	88
1992/1993	10	197	171	178	187	43	100	162	19	0	5	0
1993/1994	2	27	159	58	10	125	77	41	45	34	3	7
1994/1995	31	112	177	114	117	117	157	92	43	13	3	8
1995/1996	69	36	42	83	122	118	159	136	49	17	22	20

## Cuenca: CANAL NORTE SAN BERNARDO

PLANILLA Nro 21

## RESUMEN DEL ALMACENAMIENTO [ mm ]

ANO HIDRO	SEP	OCT	NOV	DIC	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO
1960/1961	118	208	258	262	137	261	384	473	454	452	424	388
1961/1962	345	341	336	350	379	339	319	349	329	313	328	324
1962/1963	267	273	196	207	141	229	134	126	103	77	59	15
1963/1964	95	80	56	46	0	0	113	365	345	347	339	337
1964/1965	405	376	385	322	226	208	207	245	200	158	119	129
1965/1966	157	247	285	372	427	473	473	457	473	442	426	399
1966/1967	415	378	389	267	404	473	473	450	473	473	445	429
1967/1968	422	363	356	306	400	374	329	384	370	379	387	401
1968/1969	356	321	270	157	208	338	270	301	299	276	272	248
1969/1970	281	379	308	235	216	198	172	169	233	210	215	271
1970/1971	290	270	355	233	154	101	293	326	466	452	459	446
1971/1972	399	407	347	287	213	125	423	455	424	427	457	436
1972/1973	390	406	473	473	473	394	473	473	441	473	473	468
1973/1974	435	439	453	460	468	473	417	473	473	450	410	379
1974/1975	361	331	246	143	41	0	110	148	177	143	144	129
1975/1976	130	254	198	100	131	100	281	238	210	186	163	136
1976/1977	112	115	89	58	103	70	259	280	304	282	259	259
1977/1978	248	232	279	230	176	240	146	126	93	79	40	10
1978/1979	0	0	54	12	0	73	74	100	67	45	69	40
1979/1980	49	37	7	129	47	100	82	195	244	250	230	193
1980/1981	194	188	283	250	304	473	473	473	473	470	455	434
1981/1982	405	379	387	376	404	395	407	449	408	449	436	391
1982/1983	406	386	400	473	473	473	468	473	473	456	473	449
1983/1984	425	362	372	360	468	473	473	473	460	470	444	433
1984/1985	435	444	473	473	473	473	438	473	455	429	417	454
1985/1986	473	473	423	424	328	298	473	473	473	473	473	454
1986/1987	473	473	446	445	460	413	387	418	473	452	448	436
1987/1988	449	402	473	473	456	400	400	423	406	396	394	350
1988/1989	319	274	206	170	72	2	141	473	436	426	452	428
1989/1990	419	399	340	409	381	377	366	473	473	473	464	418
1990/1991	411	473	415	427	462	417	473	473	473	452	444	415
1991/1992	470	473	445	473	464	473	473	473	458	473	473	473
1992/1993	437	473	473	473	473	410	411	473	448	422	399	365
1993/1994	321	271	335	268	146	165	143	123	124	132	107	80
1994/1995	69	107	197	136	85	118	139	182	197	186	167	145
1995/1996	163	128	54	16	10	32	106	181	186	188	192	166

## Cuenca CANAL NORTE SAN BERNARDO

## PLANILLA Nro 22

## RESUMEN DE TEMPERATURAS EN SAENZ PENA

ANO HIDRO	SEP	OCT	NOV	DIC	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO
1960/1961	21.1	23.3	24.6	27.3	28.9	24.9	24.9	22.5	20.9	15.5	17.0	21.2
1961/1962	20.6	25.2	25.9	27.1	26.6	26.3	25.6	21.0	16.6	15.0	11.6	16.8
1962/1963	21.3	21.1	26.8	28.6	29.2	27.0	26.1	22.7	19.5	16.8	19.1	19.4
1963/1964	20.0	24.6	24.5	28.4	30.3	28.6	25.6	22.6	20.8	13.4	14.1	16.9
1964/1965	16.9	20.8	21.6	26.0	26.9	27.7	26.2	23.0	20.6	19.4	20.9	16.0
1965/1966	18.6	24.6	23.7	27.4	30.7	28.2	26.7	22.1	17.8	17.5	17.4	16.0
1966/1967	19.5	23.1	26.8	27.4	26.2	25.5	24.0	21.8	21.8	11.3	16.0	17.2
1967/1968	19.6	24.3	23.0	23.0	25.6	25.6	24.0	17.5	16.1	16.4	17.4	17.8
1968/1969	18.8	22.5	26.5	27.5	26.2	27.0	24.3	20.7	19.5	15.0	17.8	14.6
1969/1970	14.6	21.8	21.7	24.6	25.9	27.9	26.5	25.5	24.1	19.6	15.2	15.8
1970/1971	20.4	21.8	22.8	27.6	26.6	26.2	23.4	19.4	16.1	11.6	17.8	17.0
1971/1972	21.4	21.5	25.2	25.8	27.5	27.0	23.0	19.6	20.7	17.6	14.7	15.4
1972/1973	20.6	21.3	23.3	25.4	27.5	27.0	24.8	21.8	17.6	16.0	12.6	14.1
1973/1974	17.2	21.8	22.8	24.5	27.4	14.7	23.4	20.0	18.1	15.0	17.4	16.1
1974/1975	17.2	21.1	24.1	25.4	27.0	27.7	24.6	21.6	18.2	17.8	14.2	15.3
1975/1976	18.2	21.0	22.7	25.7	27.2	25.3	22.8	19.4	16.4	15.0	15.7	15.8
1976/1977	19.4	22.5	24.9	26.0	26.7	27.2	26.1	21.1	17.0	16.4	17.5	16.9
1977/1978	20.8	23.8	24.3	25.6	27.2	25.8	26.7	20.5	17.5	16.0	18.3	16.0
1978/1979	21.4	24.4	24.9	26.9	29.0	25.8	23.3	19.1	17.2	15.1	17.3	20.2
1979/1980	17.7	23.2	24.0	25.4	26.2	26.7	27.1	23.4	20.0	14.9	14.0	17.4
1980/1981	17.8	22.0	22.2	26.0	25.8	26.7	24.3	21.7	22.2	13.3	15.1	18.6
1981/1982	17.1	21.5	23.7	25.9	26.1	24.8	24.0	21.8	19.0	16.2	16.0	18.8
1982/1983	20.8	21.8	23.4	25.5	27.5	26.0	24.5	20.9	18.2	13.1	13.6	16.2
1983/1984	17.6	22.4	23.4	27.0	26.2	27.2	24.6	19.3	20.3	13.0	16.2	14.0
1984/1985	19.2	24.0	23.7	24.0	25.8	26.5	25.5	21.4	20.4	16.6	15.2	15.8
1985/1986	15.8	17.8	22.2	25.5	26.5	27.7	26.4	23.5	23.2	19.6	18.4	16.6
1986/1987	19.3	22.0	24.4	26.4	26.8	25.4	24.9	21.8	14.6	14.8	17.7	15.2
1987/1988	17.6	21.2	24.0	24.4	26.7	24.5	26.9	20.3	14.0	13.5	13.0	18.0
1988/1989	18.8	22.2	25.6	27.3	27.6	27.5	23.4	20.5	17.6	15.9	13.9	17.4
1989/1990	16.8	21.3	23.8	26.6	26.9	24.8	25.2	22.1	16.7	13.1	13.2	18.5
1990/1991	18.5	17.2	23.1	25.6	25.5	25.6	25.0	24.9	21.8	19.3	16.1	14.8
1991/1992	19.2	20.6	22.3	25.3	25.4	25.5	23.8	20.5	18.2	18.1	11.4	15.6
1992/1993	18.9	22.1	23.9	26.1	27.1	26.1	24.9	21.4	18.8	15.7	15.8	16.7
1993/1994	18.9	22.1	23.9	26.1	27.1	26.1	24.9	21.4	18.8	15.7	15.8	16.7
1994/1995	18.9	22.1	23.4	34.3	32.8	24.0	29.7	20.1	16.4	16.0	15.3	16.6
1995/1996	19.4	21.2	26.0	25.8	26.5	25.0	23.3	21.2	18.6	12.2	12.7	18.6

## Cuenca CANAL NORTE SAN BERNARDO

PLANILLA Nro 23

## RESUMEN DE evapotranspiracion [mm]

AÑO HIDRÓ	SEP	OCT	NOV	DIC	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO
1960/1961	57	85	100	136	146	93	97	67	54	22	30	58
1961/1962	56	106	115	134	129	108	105	58	32	23	13	34
1962/1963	57	63	124	146	148	113	110	67	43	26	40	44
1963/1964	50	98	99	144	155	124	105	68	53	15	18	32
1964/1965	33	64	72	123	131	118	111	72	53	42	54	29
1965/1966	41	98	90	136	157	121	116	64	35	31	32	27
1966/1967	49	85	124	136	125	100	89	63	62	11	28	36
1967/1968	52	98	88	93	118	101	91	39	32	31	37	42
1968/1969	45	80	121	137	125	113	92	56	47	23	37	24
1969/1970	24	64	72	101	122	139	110	104	81	47	23	26
1970/1971	57	76	86	138	129	107	86	50	31	14	39	37
1971/1972	62	71	108	121	136	113	81	49	55	34	23	28
1972/1973	58	71	90	117	136	113	98	65	38	28	17	24
1973/1974	41	78	88	109	135	31	87	56	44	27	40	36
1974/1975	37	69	97	117	132	118	96	63	41	36	22	28
1975/1976	37	69	97	117	132	118	96	63	41	36	22	28
1976/1977	45	71	86	120	134	99	82	51	34	26	30	33
1977/1978	48	80	104	123	129	115	110	58	33	28	35	34
1978/1979	57	91	98	119	134	103	116	54	36	26	39	30
1979/1980	61	97	104	132	147	103	83	45	33	22	33	53
1980/1981	39	86	95	116	125	111	119	76	50	22	20	37
1981/1982	40	76	79	124	120	111	93	64	66	18	26	45
1982/1983	37	73	93	122	123	94	90	65	46	29	30	46
1983/1984	59	76	91	118	136	105	95	59	42	18	21	33
1984/1985	40	81	91	133	125	115	96	49	54	18	31	23
1985/1986	48	94	93	102	120	110	104	61	53	30	25	30
1986/1987	33	64	72	123	131	118	111	72	53	42	54	29
1987/1988	49	77	100	128	130	99	99	65	24	23	38	28
1988/1989	49	85	124	136	125	100	89	63	62	11	28	36
1989/1990	26	26	26	25	25	22	19	16	15	18	19	21
1990/1991	52	98	88	93	118	101	91	39	32	31	37	42
1991/1992	45	80	121	137	125	113	92	56	47	23	37	24
1992/1993	62	71	108	121	136	113	81	49	55	34	23	28
1993/1994	58	71	90	117	136	113	98	65	38	28	17	24
1994/1995	41	78	88	109	135	31	87	56	44	27	40	36
1995/1996	37	69	97	117	132	118	96	63	41	36	22	28

## Cuenca: CANAL NORTE SAN BERNARDO

PLANILLA Nro 24

## RESUMEN DEL ALMACENAMIENTO DISPONIBLE en [ mm ]

AÑO HIDRO	SEP	OCT	NOV	DIC	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO
1960/1961	355	265	215	211	336	212	89	0	19	21	49	85
1961/1962	128	132	137	123	94	134	154	124	144	160	145	149
1962/1963	206	200	277	266	332	244	339	347	370	396	414	458
1963/1964	378	393	417	427	473	473	360	108	128	126	134	136
1964/1965	68	97	88	151	247	265	266	228	273	315	354	344
1965/1966	316	226	188	101	46	0	0	16	0	31	47	74
1966/1967	58	95	84	206	69	0	0	23	0	0	28	44
1967/1968	51	110	117	167	73	99	144	89	103	94	86	72
1968/1969	117	152	203	316	265	135	203	172	174	197	201	225
1969/1970	192	94	165	238	257	275	301	304	240	263	258	202
1970/1971	183	203	118	240	319	372	180	147	7	21	14	27
1971/1972	74	66	126	186	260	348	50	18	49	46	16	37
1972/1973	83	67	0	0	0	79	0	0	32	0	0	5
1973/1974	38	34	20	13	5	0	56	0	0	23	63	94
1974/1975	112	142	227	330	432	473	363	325	296	330	329	344
1975/1976	343	219	275	373	342	373	192	235	263	287	310	337
1976/1977	361	358	384	415	370	403	214	193	169	191	214	214
1977/1978	225	241	194	243	297	233	327	347	380	394	433	463
1978/1979	473	473	419	461	473	400	399	373	406	428	404	433
1979/1980	424	436	466	344	426	373	391	278	229	223	243	280
1980/1981	279	285	190	223	169	0	0	0	0	3	18	39
1981/1982	68	94	86	97	69	78	66	24	65	24	37	82
1982/1983	67	87	73	0	0	0	5	0	0	17	0	24
1983/1984	48	111	101	113	5	0	0	0	13	3	29	40
1984/1985	38	29	0	0	0	0	35	0	18	44	56	19
1985/1986	0	0	50	49	145	175	0	0	0	0	0	19
1986/1987	0	0	27	28	13	60	86	55	0	21	25	37
1987/1988	24	71	0	0	17	73	73	50	67	77	79	123
1988/1989	154	199	267	303	401	471	332	0	37	47	21	45
1989/1990	54	74	133	64	92	96	107	0	0	0	9	55
1990/1991	62	0	58	46	11	56	0	0	0	21	29	58
1991/1992	3	0	28	0	9	0	0	0	15	0	0	0
1992/1993	36	0	0	0	0	63	62	0	25	51	74	108
1993/1994	152	202	138	205	327	308	330	350	349	341	366	393
1994/1995	404	366	276	337	388	355	334	291	276	287	306	328
1995/1996	310	345	419	457	463	441	367	292	287	285	281	307

BALANCE HIDRICO THORNWITE

CUENCA = CANAL NORTE SAN BERNARD		1960	1961	Coef. a =	2.69	Indice I =	119.65					
AREA = 117.3 Km2		1995	1996	Almacenamiento inicial [ Si ]			150 mm					
Ubicacion, Latitud en Grados (1/2)=		27	0.25	Almacenamiento max. [ Smax ]			473 mm					
MESES	SEP	OCT	NOV	DIC	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO
TEMPERATURA MEDIA MENSUAL [ ° C ]	21.1	23.3	24.6	27.3	28.9	24.9	24.9	22.5	20.9	15.5	17.0	21.2
PRECIPITACION [ P ]	25	175	150	140	21	217	220	195	35	20	2	22
EVAPOTRANSPIRACION POTENCIAL [ E ]	57	85	100	136	146	93	97	67	54	22	30	58
P - EP	-32	90	50	4	-125	124	123	128	-19	-2	-28	-36
VARIACION DE ALMACENAMIENTO [ #S ]	-32	90	50	4	-125	124	123	89	-19	-2	-28	-36
ALMACENAMIENTO DE AGUA UTIL [ S ]	118	208	258	262	137	261	384	473	454	452	424	388
DEFICIT [ d ]												
EXCESO [ e ]								39	29	22	16	12
APORTACIONES [ a , mm ]								10	7	6	4	3
ESCURRIMIENTO [ esc , Hm3 ]								1.150	0.856	0.645	0.481	0.364
EVAPOTRANSPIRACION REAL [ ER ]	57	85	100	136	146	93	97	67	54	22	30	58
INDICE CALORICO THORNWITE	8.85	10.28	11.16	13.07	14.24	11.37	11.37	9.75	8.72	5.55	6.38	8.91

DOBLE MASAPLANILLA N° 26

	1	2	3	4			
ANOS	Saenz Peña	Villa Angela	Las Breñas	Media	Acum.	San Bernard	Acum.
1960	1145.2	1026.0	1119.0	1096.7	1096.7	964.0	964.0
1961	1311.1	1168.2	1086.7	1188.7	2285.4	868.0	1832.0
1962	774.6	771.0	670.4	738.7	3024.1	600.0	2432.0
1963	794.2	897.3	744.4	812.0	3836.0	814.0	3246.0
1964	906.1	822.5	732.8	820.5	4656.5	968.0	4214.0
1965	1292.0	1197.4	1088.3	1192.6	5849.1	924.0	5138.0
1966	1168.3	1347.0	1086.7	1200.7	7049.7	971.0	6109.0
1967	1008.2	1081.6	902.2	997.3	8047.1	882.0	6991.0
1968	847.0	679.1	789.2	771.8	8818.8	761.0	7752.0
1969	810.5	969.6	831.3	870.5	9689.3	945.0	8697.0
1970	746.0	908.1	683.5	779.2	10468.5	858.0	9555.0
1971	656.1	650.0	833.0	713.0	11181.5	758.0	10313.0
1972	1170.2	1045.9	1159.6	1125.2	12306.8	1015.0	11328.0
1973	1359.2	1462.2	1378.0	1399.8	13706.6	1126.0	12454.0
1974	1039.5	1034.2	1182.2	1085.3	14791.9	944.0	13398.0
1975	929.6	844.4	1014.0	929.3	15721.2	943.0	14341.0
1976	767.7	758.3	680.1	735.4	16456.6	624.0	14965.0
1977	813.7	1073.8	1122.1	1003.2	17459.8	1002.0	15967.0
1978	726.6	739.2	648.2	704.7	18164.4	628.0	16595.0
1979	1256.8	947.9	1127.9	1110.9	19275.3	818.0	17413.0
1980	1027.4	1033.4	1035.7	1032.2	20307.5	859.0	18272.0
1981	1191.1	1405.0	1151.0	1249.0	21556.5	1190.0	19462.0
1982	1222.6	1083.0	987.9	1097.8	22654.3	980.0	20442.0
1983	1119.1	1111.0	971.2	1067.1	23721.4	1005.0	21447.0
1984	1127.8	1444.0	1251.7	1274.5	24995.9	1550.0	22997.0
1985	1080.9	1231.0	1352.2	1221.4	26217.3	1272.0	24269.0
1986	1695.9	1472.0	1550.1	1572.7	27790.0	1535.0	25804.0
1987	921.0	1113.0	601.0	878.3	28668.3	932.0	26736.0
1988	950.0	808.0	550.0	769.3	29437.6	567.0	27303.0
1989	1047.8	1092.0	782.0	973.9	30411.6	1115.0	28418.0
1990	1310.2	1168.0	1048.0	1175.4	31587.0	999.0	29417.0
1991	1204.7	2000.0	1351.0	1518.6	33105.5	921.0	30338.0
1992	1506.2	1527.0	876.0	1303.1	34408.6	1252.0	31590.0
1993	1031.2	837.0	792.0	886.7	35295.3	762.0	32352.0
1994	1261.9	1308	964	1178.0	36473.3	776	33128.0
1995	575.4	1240	940	918.5	37391.8	780	33908.0
1996	1284.2	1601	1189	1358.1	38749.8	1381	35289.0

PLANILLA N° 27

Planilla de Longitudes de canales primarios y secundarios

CANAL PRIMARIO	CANAL SECUNDARIO	LONGITUD [ Km ]	PROGRESIVA [ Km ]
<b>Bajo Hondo I</b>		53.9	0.0 ( R.P. N° 4 )
	Escuela N° 458	3.7	12.3
	Rodriguez	5.8	19.4
<b>Bajo Hondo II</b>		29.0	0.0 ( R.P. N° 4 )
	SADE	18.7	8.0
	<i>Calle 1</i>	3.0	15.7 ( SADE )
	<i>Calle 17</i>	2.8	16.7 ( SADE )
	<i>Calle 33</i>	3.3	18.7 ( SADE )
	<i>Calle 71</i>	7.0	18.7 ( SADE )
	Zoológico	8.3	20.2
	<i>Calle 20</i>	1.7	8.3 Zoológico
	Calle 28	3.8	29.0
	Calle 48	5.2	30.1
	Calle 64	9.0	31.2
<b>Bajo Hondo III</b>		47.9	0.0 ( R.P. N° 4 )
	Bajo Hondo III - B	16.9	4.9
	Escuela N° 214	8.7	20.3
	Bajo Hondo III-A-Sur	19.2	24.1

Estación: TRES ISLETAS  
 Ente : PARTICULAR

Código: 31  
 Código: 14

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1956	114.0	182.0	267.0	143.0	45.0	3.0	28.0	73.0	4.0	239.0	71.0	71.0	1240.0	60
1957	191.0	100.0	47.0	128.5	95.5	16.0	0.0	19.5	16.0	133.0	61.5	397.0	1205.0	52
1958	6.0	123.0	134.0	165.0	18.0	0.0	88.0	27.0	38.0	20.0	202.0	277.0	1098.0	48
1959	229.0	203.0	165.0	112.0	143.0	5.0	70.0	8.0	176.0	113.0	123.0	159.0	1506.0	71
1960	113.5	140.0	235.0	79.0	0.0	63.0	5.0	63.0	10.0	264.0	103.0	64.0	1139.5	54
1961	101.0	308.0	212.0	81.5	125.0	5.0	16.0	8.0	8.0	81.0	216.0	125.0	1286.5	60
1962	214.0	138.5	157.0	80.0	124.0	0.0	32.0	6.0	12.0	117.0	34.0	113.0	1027.5	51
1963	88.0	136.0	77.0	81.0	28.0	20.0	19.0	30.0	26.0	20.0	36.0	96.0	657.0	51
1964	31.5	44.0	107.0	178.5	149.0	35.0	19.0	25.0	71.0	51.0	46.0	125.0	882.0	49
1965	65.0	143.0	79.0	125.0	17.5	12.0	22.0	14.0	31.0	172.0	177.0	206.0	1063.5	65
1966	141.0	318.0	58.0	202.0	62.0	8.0	5.0	3.0	21.0	35.0	112.0	82.0	1047.0	53
1967	190.0	219.0	140.0	159.0	24.0	22.0	20.0	23.0	40.0	27.0	66.0	82.0	1012.0	54
1968	147.0	105.0	92.0	20.0	30.0	41.0	30.0	38.0	34.5	113.0	101.0	91.0	842.5	43
1969	248.0	233.0	102.0	106.0	43.0	0.0	25.0	5.0	34.0	52.0	58.0	173.0	1079.0	34
1970	61.0	40.0	107.0	35.0	58.0	0.0	12.0	66.0	34.0	93.0	22.0	57.5	585.5	36
1971	142.5	104.0	299.0	53.0	91.0	4.0	9.6	22.5	12.0	83.5	59.1	37.5	917.7	47
1972	100.0	31.5	240.0	298.0	96.0	52.5	65.0	20.5	45.5	88.0	120.5	120.0	1277.5	50
1973	330.0	130.0	97.5	90.0	85.0	124.0	51.5	3.5	20.5	13.0	128.0	146.0	1219.0	51
1974	177.0	134.0	228.0	42.5	132.5	0.0	17.0	45.0	22.5	89.5	75.0	196.0	1159.0	49
1975	46.0	53.5	222.5	141.5	96.5	64.0	26.0	36.5	47.0	29.5	212.0	191.5	1166.5	56
1976	103.5	123.5	122.0	11.0	10.5	6.0	0.0	2.5	77.5	109.0	110.0	138.5	814.0	49
1977	227.0	114.5	245.5	72.5	95.0	9.5	13.0	62.0	23.0	81.5	111.5	105.5	1160.5	57
1978	159.0	124.5	17.0	48.0	20.0	25.5	4.0	0.0	35.0	69.5	249.0	89.0	840.5	35
1979	45.0	178.5	133.0	96.5	12.0	11.0	10.0	51.5	46.0	116.5	122.5	192.5	1015.0	55
1980	124.5	41.0	153.5	117.0	213.0	51.0	0.0	30.5	32.0	111.0	531.5	148.0	1553.0	55
1981	420.0	280.0	153.0	125.5	96.0	31.5	11.0	26.0	64.5	35.5	227.5	118.0	1588.5	61

Fecha de inicio de la serie: 04/01/56  
 Fecha de final. de la serie: 14/08/94  
 Frecuencia anual media: 54 Precipitación anual media: 1136.2  
 Cantidad de años con datos completos: 37  
 Cantidad de años con interrupciones: 1  
 Fecha y hora de última actualización : 16/09/94 09:48:08  
 Fecha y hora del último cálculo estadístico: 19/11/96 08:55:36

Estación: TRES ISLETAS  
 Ente : PARTICULAR

Código: 31  
 Código: 14

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1982	225.0	167.0	210.0	146.0	54.0	80.0	92.5	17.0	94.5	45.0	184.5	198.0	1513.5	64
1983	206.0	168.0	112.0	81.0	261.0	0.0	59.5	1.0	8.5	75.5	171.5	101.5	1245.5	61
1984	168.5	32.5	175.0	119.0	58.0	74.5	12.0	4.0	67.5	112.5	262.5	48.5	1134.5	86
1985	155.0	203.5	26.0	265.0	25.0	3.0	11.5	30.5	133.0	116.5	21.0	118.5	1108.5	62
1986	3.0	135.0	425.5	291.0	101.5	58.0	25.0	0.0	101.0	140.0	186.5	137.5	1604.0	59
1987	361.5	45.5	25.0	52.0	49.0	6.0	101.0	28.0	14.0	82.5	126.0	84.0	974.5	57
1988	152.5	82.0	228.0	123.5	6.0	18.0	4.5	2.0	11.0	58.0	115.0	155.0	955.5	51
1989	74.0	69.0	362.0	226.0	20.0	14.0	20.0	37.0	67.0	52.5	137.5	161.0	1240.0	59
1990	97.5	121.5	19.0	183.5	62.5	37.0	67.5	0.0	106.5	178.0	89.0	53.5	1015.5	52
1991	163.0	172.0	222.5	101.0	71.0	65.0	0.0	0.0	85.0	122.5	92.5	265.0	1359.5	59
1992	149.5	121.5	132.0	155.0	6.5	62.5	7.0	30.5	23.0	270.5	164.0	384.0	1506.0	57
1994	66.0	309.5	120.0	96.0	69.5	3.0	7.0	39.0					S/Dato	S/Dat

Fecha de inicio de la serie: 04/01/56  
 Fecha de final. de la serie: 14/08/94  
 Frecuencia anual media: 54 Precipitación anual media: 1136.2  
 Cantidad de años con datos completos: 37  
 Cantidad de años con interrupciones : 1  
 Fecha y hora de última actualización : 16/09/94 09:48:08  
 Fecha y hora del último cálculo estadístico: 19/11/96 08:55:36

Estación: AVIA TERA I  
 Ente : FCC BELGRANO

Código: 37  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1916	102.0	39.0	0.0	166.0	390.0	60.0	19.0	0.0	0.0	0.0	34.0	71.0	881.0	21
1917	14.0	112.0	10.0	21.0	0.0	0.0	0.0	55.0	12.0	37.0	0.0	88.0	349.0	12
1918	108.0	56.0	45.0	0.0	25.4	0.0	0.0	0.0	16.5	122.5	73.4	85.0	531.8	28
1923	1/Mes	0.0	0.0	87.0	0.0	16.1	5.3	11.0	47.0	14.0	96.8	107.0	S/Dato	S/Dat
1924	63.0	101.0	79.0	154.5	0.0	33.8	15.0	2.0	77.5	13.6	130.5	78.1	748.0	49
1925	80.9	31.7	1.0	197.0	24.8	0.0	14.8	0.0	0.0	98.0	107.0	74.0	629.2	39
1926	107.2	8.0	123.1	20.0	33.0	0.0	0.0	19.0	17.0	37.0	201.0	98.0	663.3	45
1927	164.0	113.0	179.0	31.0	0.0	20.0	1.0	2.0	2.0	111.0	238.0	121.0	982.0	58
1928	161.0	0.0	141.0	293.0	31.0	0.0	39.5	21.0	49.0	78.0	0.0	130.0	943.5	40
1929	0.0	50.0	49.0	15.0	0.0	10.0	0.0	0.0	32.0	31.0	110.0	37.0	334.0	19
1931	260.0	124.0	204.0	30.0	33.0	10.0	5.0	10.0	14.0	114.0	52.0	112.0	968.0	44
1956	160.0	204.0	212.0	135.0	14.0	9.0	20.0	60.0	15.0	157.0	107.0	109.0	1202.0	65
1957	200.0	86.0	87.0	84.0	69.0	5.0	0.0	5.0	71.0	158.0	59.0	346.0	1170.0	66
1958	37.0	154.0	126.0	111.0	38.0	0.0	21.0	24.0	37.0	23.0	210.0	178.0	959.0	58
1959	227.0	282.0	117.0	63.0	107.0	20.0	51.0	2.0	84.0	156.0	29.0	102.0	1240.0	68
1960	144.0	189.0	105.0	95.0	5.0	87.0	8.0	29.0	15.0	180.0	184.0	116.0	1157.0	58
1961	75.0	335.0	164.0	116.0	30.0	25.0	15.0	15.0	9.0	78.0	270.0	206.0	1338.0	59
1962	151.0	89.0	133.0	78.0	55.0	0.0	37.0	49.0	5.0	82.0	55.0	134.0	868.0	46
1963	126.0	140.0	34.0	98.0	40.0	11.0	12.0	0.0	54.0	42.0	86.0	123.0	766.0	52
1964	7.0	67.0	238.0	193.0	98.0	4.0	29.0	0.0	45.0	62.0	38.0	82.0	863.0	47
1965	60.0	129.0	63.0	204.0	15.0	0.0	22.0	6.0	70.0	164.0	177.0	256.0	1166.0	51
1966	231.0	297.0	105.0	117.0	49.0	0.0	0.0	0.0	49.0	23.0	227.0	40.0	1138.0	45
1967	247.0	273.0	71.5	55.0	63.0	18.0	27.0	49.0	34.0	20.0	76.0	70.0	1003.5	61
1968	264.0	141.0	70.0	86.0	25.0	29.0	31.0	58.0	14.0	42.0	62.0	185.0	1007.0	61
1969	122.0	161.0	180.0	0.0	36.0	10.0	48.0	0.0	40.0	134.0	40.0	84.0	855.0	44
1970	66.0	88.0	130.0	30.0	68.0	0.0	45.0	25.0	102.0	120.0	60.0	134.0	868.0	49

Fecha de inicio de la serie: 21/01/16  
 Fecha de final. de la serie: 31/08/91  
 Frecuencia anual media: 47 Precipitación anual media: 948.1  
 Cantidad de años con datos completos: 44  
 Cantidad de años con interrupciones : 3  
 Fecha y hora de última actualización : 14/05/96 09:01:47  
 Fecha y hora del último cálculo estadístico: 19/11/96 08:56:50

Estación: AVIA TERAJ  
 Ente : FFCC BELGRANO

Código: 37  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1971	83.0	117.0	202.0	138.0	6.0	9.0	24.0	35.0	15.0	83.0	72.0	20.0	804.0	49
1972	90.0	31.0	134.0	118.0	54.0	37.0	35.0	7.0	15.0	66.0	104.0	92.0	783.0	48
1973	240.0	51.0	163.0	123.0	32.0	118.0	37.0	27.0	0.0	45.0	83.0	148.0	1067.0	50
1974	169.0	213.0	121.0	34.0	105.0	0.0	23.0	40.0	25.0	3.0	40.0	87.0	860.0	52
1975	31.0	8.0	453.0	197.0	29.0	46.0	0.0	48.0	5.0	15.0	149.0	35.0	1016.0	35
1976	75.0	105.0	167.0	0.0	12.0	0.0	19.0	0.0	60.0	65.0	70.0	109.0	682.0	27
1977	185.0	92.0	116.0	100.0	0.0	0.0	43.0	0.0	30.0	50.0	82.0	109.0	807.0	36
1978	81.0	153.0	74.0	20.0	8.0	3.0	0.0	0.0	21.0	54.0	115.0	63.0	592.0	32
1979	80.0	178.0	89.0	68.0	3.0	0.0	30.0	40.0	35.0	107.0	132.0	395.0	1157.0	48
1980	113.0	169.0	82.0	136.0	154.0	41.0	0.0	5.0	30.0	59.0	209.0	84.0	1082.0	51
1981	331.0	182.0	45.0	112.0	101.0	27.0	0.0	51.0	0.0	125.0	100.0	87.0	1161.0	44
1982	135.0	230.0	215.0	144.0	15.0	111.0	17.0	25.0	63.0	30.0	49.0	120.0	1154.0	47
1983	198.0	161.0	31.0	471.0	220.0	0.0	32.0	0.0	0.0	15.0	124.0	123.0	1375.0	40
1984	214.0	115.0	203.0	240.0	45.0	58.0	0.0	10.0	20.0	20.0	75.0	49.0	1049.0	60
1985	31.0	78.0	143.0	100.0	9.0	30.0	37.0	48.0	122.0	49.0	32.0	87.0	766.0	56
1986	10.0	210.0	424.0	185.0	100.0	99.0	39.0	10.0	115.0	220.0	183.0	138.0	1733.0	67
1987	170.0	68.0	69.0	213.0	63.0	0.0	48.0	20.0	5.0	95.0	160.0	130.0	1041.0	52
1988	255.0	117.0	163.0	88.0	4.0	4.0	13.0	0.0	8.0	57.0	52.0	205.0	966.0	35
1989	66.0	31.0	252.0	144.0	18.0	8.0	16.0	44.0	24.0	45.0	102.0	240.0	990.0	47
1990	65.0	146.0	73.0	303.0	153.0	36.0	1.0	I/Mes	0.0	0.0	0.0	0.0	S/Dato	S/Dat
1991	88.0	161.0	235.0	79.0	203.0	34.0	20.0	I/Mes					S/Dato	S/Dat

Fecha de inicio de la serie: 21/01/16  
 Fecha de final. de la serie: 31/08/91  
 Frecuencia anual media: 47 Precipitación anual media: 948.1  
 Cantidad de años con datos completos: 44  
 Cantidad de años con interrupciones : 3  
 Fecha y hora de última actualización : 14/05/96 09:01:47  
 Fecha y hora del último cálculo estadístico: 19/11/96 08:56:50

Estación: VILLA BERTHET  
 Ente : OTRO

Código: 16  
 Código: 16

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1952	I/Mes	48.0	8.0	128.0	190.0	30.0	S/Dato	S/Dat						
1953	239.0	76.0	101.0	135.0	147.0	112.0	0.0	0.0	27.0	246.0	97.0	255.0	1435.0	44
1954	297.0	69.0	147.0	91.0	5.0	0.0	8.0	22.0	5.0	243.0	129.0	117.0	1133.0	41
1955	50.0	148.0	330.0	128.0	73.0	30.0	28.0	16.0	10.0	56.0	127.0	177.0	1173.0	50
1956	252.0	242.0	191.0	121.0	23.0	8.0	18.0	57.0	13.0	223.0	65.0	93.0	1306.0	61
1957	145.0	83.0	53.0	181.0	57.0	7.0	1.0	21.0	87.0	146.0	43.0	360.0	1184.0	64
1958	69.0	150.0	149.0	143.0	23.0	6.0	11.0	32.0	56.0	12.0	256.0	154.0	1061.0	56
1959	253.0	227.0	91.0	67.0	98.0	9.0	37.0	20.0	104.0	146.0	42.0	176.0	1270.0	61
1960	125.0	53.0	112.0	78.0	0.0	32.0	42.0	51.0	36.0	214.0	175.0	177.0	1095.0	55
1961	51.0	141.0	321.0	141.0	62.0	39.0	6.0	24.0	17.0	90.0	233.0	181.0	1306.0	50
1962	145.0	42.0	113.0	160.0	33.0	0.0	58.0	24.0	15.0	71.0	68.0	82.0	811.0	37
1963	120.0	292.0	25.0	161.0	68.0	19.0	26.0	0.0	134.0	31.0	102.0	96.0	1074.0	57
1964	0.0	106.0	138.0	191.0	38.0	15.0	17.0	8.0	82.0	54.0	79.0	111.0	839.0	44
1965	48.0	266.0	58.0	124.0	7.0	13.0	30.0	11.0	92.0	119.0	179.0	240.0	1187.0	56
1966	231.0	232.0	306.0	81.0	89.0	0.0	7.0	0.0	64.0	48.0	112.0	47.0	1217.0	38
1967	281.0	242.0	140.0	42.0	111.0	25.0	11.0	17.0	50.0	69.0	97.0	51.0	1136.0	53
1968	296.0	39.0	40.0	71.4	12.0	48.0	38.0	68.0	13.0	60.0	39.0	111.0	835.4	55
1969	178.0	104.0	36.0	130.0	56.0	9.0	34.0	0.0	57.0	132.0	81.0	36.0	853.0	42
1970	60.0	73.0	165.0	36.0	106.0	0.0	50.0	34.0	142.0	65.0	8.0	232.0	971.0	52
1971	57.0	57.0	301.0	111.0	6.0	0.0	13.0	10.0	24.0	80.0	68.0	61.0	788.0	41
1972	41.0	32.0	420.0	93.0	19.0	51.0	63.0	0.0	30.0	81.0	159.0	183.0	1172.0	47
1973	469.0	65.0	295.0	161.0	8.0	91.0	55.0	31.0	0.0	48.0	81.0	123.0	1427.0	47
1974	113.0	276.0	122.0	120.0	138.0	10.0	33.0	24.0	11.0	23.0	18.0	36.0	924.0	39
1975	25.0	13.0	229.0	50.0	36.0	60.0	0.0	70.0	16.0	36.0	190.0	38.0	763.0	31
1976	71.0	6.0	75.0	10.0	7.0	0.0	0.0	0.0	5.0	56.0	73.0	56.0	359.0	18
1977	97.0	48.0	145.0	84.0	48.0	6.0	23.0	38.0	I/Mes	I/Mes	202.0	57.0	S/Dato	S/Dat

Fecha de inicio de la serie: 01/01/52  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 46 Precipitación anual media: 1057.9  
 Cantidad de años con datos completos: 42  
 Cantidad de años con interrupciones : 3  
 Fecha y hora de última actualización : 10/12/96 17:52:35  
 Fecha y hora del último cálculo estadístico: 12/12/96 12:19:29

Estación: VILLA BERTHET  
 Ente : OTRO

Código: 16  
 Código: 16

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1978	113.0	191.0	2.0	8.0	2.0	25.0	0.0	0.0	102.0	109.0	155.0	79.0	786.0	35
1979	98.0	46.0	94.0	71.0	0.0	0.0	36.0	25.0	41.0	12.0	43.0	306.0	772.0	44
1980	78.0	63.0	119.0	255.0	75.0	98.0	8.0	45.0	47.0	116.0	234.0	132.0	1270.0	50
1981	230.0	199.0	190.0	86.0	61.0	18.0	0.0	41.0	7.0	46.0	118.0	125.0	1121.0	57
1982	216.0	110.0	104.5	76.0	23.5	32.0	51.0	18.0	209.0	27.0	157.0	240.0	1264.0	46
1983	261.0	130.0	34.0	368.0	146.0	0.0	21.0	0.0	6.0	12.0	79.0	69.0	1126.0	36
1984	187.0	162.0	480.0	191.0	40.0	0.0	13.0	51.0	106.0	101.0	247.0	8.0	1586.0	47
1985	152.0	137.0	196.0	271.0	94.0	7.0	30.0	70.0	67.0	136.0	71.0	76.0	1307.0	54
1986	12.0	112.0	248.0	115.0	66.0	108.0	40.0	26.0	187.0	200.0	96.0	27.0	1237.0	60
1987	61.0	73.0	76.0	151.0	104.0	0.0	0.0	0.0	0.0	5.0	68.5	40.0	578.5	28
1988	309.0	33.0	206.0	61.0	11.0	6.0	2.0	2.0	27.0	42.0	73.0	70.0	842.0	40
1989	41.0	35.0	168.0	165.0	0.0	17.0	0.0	5.0	15.0	86.0	22.0	143.0	697.0	26
1990	159.0	152.0	89.0	89.0	85.0	23.0	13.0	0.0	40.0	337.0	71.0	86.0	1144.0	43
1991	111.0	58.0	143.0	274.0	267.0	7.0	33.0	10.0	104.0	63.0	68.0	142.0	1280.0	50
1992	147.0	145.0	137.0	180.0	21.0	82.0	30.0	108.0	15.0	180.0	154.0	135.0	1334.0	45
1993	90.0	32.0	89.0	108.0	30.0	0.0	8.0	0.0	12.0	6.0	129.0	96.0	600.0	37
1994	79.0	163.0	153.0	62.0	105.0	55.0	4.0	16.0	45.0	117.0	248.0	114.0	1161.0	51
1995	143.0	128.0	212.0	121.0	115.0	7.0	4.0	4.0	67.0	56.0	34.0	115.0	1006.0	43
1996	97.0	326.0	154.0	121.0	26.0	0.0	0.0	2.0	67.0	72.0			S/Dato	S/Dat

Fecha de inicio de la serie: 01/01/52  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 46 Precipitación anual media: 1057.9  
 Cantidad de años con datos completos: 42  
 Cantidad de años con interrupciones : 3  
 Fecha y hora de última actualización : 10/12/96 17:52:35  
 Fecha y hora del último cálculo estadístico: 12/12/96 12:19:29

Estación: CAMPO LARGO  
 Ente : FFCC BELGRANO

Código: 36  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1919	22.0	101.5	141.0	38.5	65.5	125.0	80.5	21.0	39.0	0.0	192.5	0.0	826.5	56
1921	0.0	82.0	176.0	24.0	15.0	21.0	0.0	12.0	74.0	0.0	88.0	0.0	492.0	35
1922	161.0	0.0	59.0	73.0	160.0	25.0	74.0	22.0	62.0	59.0	51.0	117.0	863.0	54
1923	147.0	0.0	8.0	197.0	65.0	0.0	0.0	11.0	43.0	68.0	212.0	194.0	945.0	41
1924	58.0	93.0	79.0	122.0	3.0	40.0	12.0	0.0	59.0	13.0	28.0	69.0	576.0	36
1925	42.0	15.0	5.0	156.0	69.0	0.0	20.0	3.0	21.0	78.0	99.0	119.0	627.0	51
1926	175.0	23.0	49.0	29.0	44.0	0.0	3.0	15.0	15.0	48.0	255.0	195.0	851.0	49
1927	267.0	29.0	159.0	78.0	0.0	19.0	2.0	4.0	10.0	139.0	204.0	142.0	1053.0	49
1928	157.0	160.0	171.0	233.0	50.0	2.0	15.0	25.0	78.0	88.0	78.0	0.0	1057.0	51
1929	30.5	37.0	129.0	37.0	62.0	15.0	58.0	16.0	55.0	11.0	66.0	100.0	616.5	35
1930	140.0	91.0	60.0	121.0	97.0	22.0	0.0	55.0	10.0	88.0	114.0	129.0	927.0	58
1931	405.0	52.3	211.7	47.3	65.0	22.0	10.0	15.0	0.0	191.0	58.0	68.0	1145.3	58
1932	91.0	62.0	221.0	201.0	41.0	10.0	70.0	31.0	12.0	102.0	232.0	50.0	1123.0	72
1956	169.0	231.0	180.0	99.0	23.0	10.0	12.0	84.0	8.0	180.0	85.0	105.0	1186.0	65
1957	197.0	55.0	65.0	144.0	79.0	9.0	2.0	47.0	70.0	159.0	54.0	418.0	1299.0	60
1958	67.0	100.0	131.0	130.0	69.0	5.0	29.0	19.0	42.0	16.0	284.0	222.0	1114.0	62
1959	283.0	333.0	104.0	69.0	105.0	21.0	54.0	13.0	110.0	176.0	34.0	150.0	1452.0	62
1960	131.0	136.0	115.0	62.0	0.0	43.0	24.0	23.0	21.0	175.0	164.0	158.0	1052.0	55
1961	126.0	270.0	202.0	215.0	47.0	23.0	4.0	9.0	3.0	110.0	260.0	151.0	1420.0	64
1962	175.0	42.0	121.0	103.0	20.0	0.0	44.0	22.0	10.0	60.0	51.0	103.0	751.0	40
1963	178.0	130.0	32.0	113.0	76.0	7.0	7.0	0.0	44.0	71.0	63.0	128.0	849.0	54
1964	3.0	60.0	211.0	108.0	158.0	2.0	24.0	0.0	62.0	43.0	35.0	92.0	798.0	44
1965	60.0	165.0	41.0	187.0	9.0	0.0	18.0	0.0	85.0	127.0	157.0	235.0	1084.0	56
1966	322.0	327.0	217.0	62.0	86.0	5.0	0.0	0.0	45.0	8.0	143.0	26.0	1241.0	45
1967	297.0	199.0	87.5	75.0	66.0	32.0	51.0	41.0	41.0	45.0	112.0	82.0	1128.5	64
1968	261.0	119.0	62.0	75.0	32.0	41.0	28.0	49.0	65.0	44.0	83.0	134.0	993.0	64

Fecha de inicio de la serie: 09/01/19  
 Fecha de final. de la serie: 30/12/91  
 Frecuencia anual media: 50 Precipitación anual media: 997.8  
 Cantidad de años con datos completos: 49  
 Cantidad de años con interrupciones : 0  
 Fecha y hora de última actualización : 15/05/96 09:16:06  
 Fecha y hora del último cálculo estadístico: 19/11/96 08:56:24

Estación: CAMPO LARGO  
 Ente : FFCC BELGRANO

Código: 36  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1969	117.0	180.0	89.0	108.0	43.0	20.0	25.0	0.0	38.0	84.0	52.0	70.0	826.0	43
1970	87.0	78.0	80.0	39.0	55.0	0.0	31.0	35.0	184.0	74.0	23.0	142.0	828.0	48
1971	91.0	88.0	257.0	127.0	12.0	3.0	57.0	33.0	30.0	73.0	70.0	7.0	848.0	47
1972	84.0	68.0	193.0	149.0	37.0	30.0	47.0	5.0	13.0	73.0	197.0	170.0	1066.0	65
1973	230.0	55.0	310.0	115.0	28.0	104.0	30.0	13.0	0.0	59.0	157.0	97.0	1198.0	46
1974	161.0	115.0	107.0	56.0	138.0	0.0	35.0	80.0	0.0	23.0	79.0	110.0	904.0	42
1975	46.0	35.0	333.0	95.0	114.0	10.0	10.0	24.0	23.0	0.0	145.0	63.0	898.0	38
1976	101.0	71.0	97.0	22.0	1.0	0.0	17.0	0.0	15.0	30.0	93.0	65.0	512.0	27
1977	90.0	33.0	139.0	65.0	151.0	0.0	0.0	30.0	10.0	83.0	121.0	180.0	902.0	43
1978	140.0	142.0	85.0	39.0	12.0	4.0	0.0	0.0	22.0	54.0	91.0	104.0	693.0	33
1979	4.0	198.0	80.0	91.0	0.0	0.0	2.0	26.0	23.0	111.0	95.0	202.0	832.0	34
1980	42.0	167.0	105.0	194.0	106.0	48.0	0.0	0.0	27.0	102.0	248.0	85.0	1124.0	50
1981	444.0	185.0	114.0	103.0	64.0	0.0	7.0	33.0	8.0	22.0	89.0	144.0	1213.0	60
1982	95.0	175.0	162.0	69.0	8.0	92.0	3.0	29.0	55.0	45.0	57.0	190.0	980.0	46
1983	105.0	101.0	192.0	386.0	66.0	0.0	30.0	0.0	0.0	0.0	235.0	25.0	1140.0	38
1984	250.0	140.0	205.0	174.0	25.0	40.0	4.0	20.0	53.0	20.0	133.0	48.0	1112.0	51
1985	59.0	35.0	129.0	60.0	12.0	10.0	20.0	78.0	87.0	77.0	33.0	165.0	765.0	44
1986	27.0	147.0	457.0	156.0	63.0	122.0	80.0	27.0	118.0	160.0	152.0	113.0	1622.0	62
1987	190.0	62.0	88.0	206.0	51.0	0.0	31.0	13.0	7.0	87.0	183.0	83.0	1001.0	46
1988	189.0	25.0	88.0	184.0	11.0	5.0	3.0	12.0	8.0	58.0	93.0	286.0	962.0	37
1989	54.0	82.0	212.0	144.0	13.0	10.0	38.0	54.0	41.0	38.0	81.0	216.0	983.0	47
1990	115.0	185.0	40.0	311.0	87.0	33.0	42.0	0.0	93.0	298.0	60.0	245.0	1509.0	57
1991	62.0	238.0	221.0	217.0	302.0	25.0	30.0	0.0	91.0	104.0	79.0	136.0	1505.0	57

Fecha de inicio de la serie: 09/01/19  
 Fecha de final. de la serie: 30/12/91  
 Frecuencia anual media: 50 Precipitación anual media: 997.8  
 Cantidad de años con datos completos: 49  
 Cantidad de años con interrupciones : 0  
 Fecha y hora de última actualización : 15/05/96 09:16:06  
 Fecha y hora del último cálculo estadístico: 19/11/96 08:56:24

Estación: CHARATA  
 Ente : OTRO

Código: 15  
 Código: 16

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1956	140.0	160.0	122.0	35.0	13.0	17.0	10.0	20.0	0.0	180.0	160.0	68.0	925.0	46
1957	66.0	72.0	41.0	91.0	35.0	13.0	0.0	19.0	53.0	166.0	80.5	241.0	877.5	52
1958	0.0	118.0	108.0	97.0	21.0	0.0	8.0	10.0	36.0	7.0	168.0	155.6	728.6	43
1959	104.0	104.0	99.0	70.0	47.0	8.0	52.3	12.0	23.0	121.0	26.0	209.0	875.3	48
1960	115.0	51.0	128.0	165.0	0.0	21.0	72.0	6.0	17.0	153.0	141.0	194.0	1063.0	58
1961	25.0	165.0	185.0	130.0	58.0	2.0	0.0	3.0	22.0	95.0	121.0	189.0	995.0	49
1962	125.0	24.0	97.0	40.0	0.0	0.0	27.0	15.0	0.0	42.0	43.0	62.0	475.0	24
1963	76.0	82.0	53.0	125.0	17.0	0.0	14.0	0.0	40.0	21.0	43.0	164.0	635.0	41
1964	20.0	62.0	174.0	180.0	3.0	6.0	5.0	0.0	70.0	22.0	20.0	173.0	735.0	41
1965	89.0	137.0	60.0	143.0	7.0	3.0	7.0	0.0	23.0	134.0	153.0	200.0	956.0	44
1966	184.0	131.0	38.0	85.0	142.0	0.0	5.0	0.0	113.0	31.0	141.0	48.0	918.0	39
1967	115.0	206.0	97.0	60.0	101.0	48.0	12.0	58.0	49.0	66.0	24.0	43.0	879.0	51
1968	216.0	53.0	108.0	43.0	26.0	44.0	20.0	47.0	15.0	87.0	78.0	57.0	794.0	55
1969	163.0	116.0	112.0	52.0	19.0	28.0	20.0	0.0	53.0	59.0	24.0	55.0	701.0	41
1970	122.0	47.0	90.0	33.0	88.0	10.0	29.0	23.0	45.0	22.0	43.0	176.0	728.0	45
1971	75.0	111.0	151.0	122.0	3.0	0.0	5.0	15.0	24.0	42.0	46.0	25.0	619.0	41
1972	148.0	42.0	324.0	138.0	11.0	45.0	28.0	4.0	32.0	71.0	131.0	154.0	1128.0	53
1973	195.0	138.0	247.0	150.0	2.0	139.0	10.0	30.0	21.0	32.0	57.0	99.0	1120.0	52
1974	150.0	219.0	86.0	85.0	84.0	0.0	12.0	12.0	62.0	13.0	22.0	58.0	803.0	49
1975	95.0	127.0	257.0	120.0	58.0	40.0	0.0	37.0	29.0	58.0	134.0	39.0	994.0	46
1976	373.0	80.0	186.0	0.0	0.0	0.0	0.0	0.0	57.0	65.0	62.0	63.0	886.0	29
1977	210.0	118.0	238.0	84.0	55.0	2.0	30.0	28.0	25.0	88.0	89.0	60.0	1027.0	43
1978	79.0	193.0	65.0	34.0	4.0	7.0	0.0	0.0	62.0	102.0	199.0	103.0	848.0	40
1979	36.0	207.0	93.0	100.0	0.0	27.0	0.0	0.0	70.0	81.0	125.0	202.0	941.0	41
1980	58.0	96.0	109.0	168.0	78.0	13.0	3.0	4.0	31.0	84.0	256.0	134.0	1034.0	53
1981	213.0	224.0	150.0	185.0	89.0	7.0	7.0	24.0	2.0	47.0	101.0	123.0	1172.0	53

Fecha de inicio de la serie: 05/01/56  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 48 Precipitación anual media: 901.9  
 Cantidad de años con datos completos: 40  
 Cantidad de años con interrupciones: 1  
 Fecha y hora de última actualización : 11/12/96 19:33:39  
 Fecha y hora del último cálculo estadístico: 12/12/96 12:19:06

Estación: CHARATA  
 Ente : OTRO

Código: 15  
 Código: 16

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1982	160.0	85.0	106.0	60.0	23.0	52.0	18.0	5.0	95.0	109.0	103.0	226.0	1042.0	61
1983	139.0	110.0	51.0	247.0	113.0	4.0	59.0	0.0	0.0	47.0	148.0	105.0	1023.0	56
1984	269.0	147.0	291.0	95.0	22.0	21.0	2.0	11.0	50.0	135.0	111.0	42.0	1196.0	65
1985	180.0	239.0	90.0	218.0	24.0	19.0	17.0	45.0	36.0	55.0	50.0	219.0	1192.0	72
1986	40.0	57.0	237.0	305.0	49.0	79.0	28.0	54.0	151.0	195.0	199.0	175.0	1569.0	74
1987	188.0	45.0	72.0	82.0	45.0	0.0	19.0	27.0	50.0	58.0	275.0	113.0	974.0	55
1988	97.0	56.0	85.0	35.0	12.0	0.0	0.0	4.0	26.0	23.0	61.0	138.0	537.0	43
1989	57.0	73.0	244.0	275.0	8.0	14.0	46.0	43.0	23.0	29.0	34.0	228.0	1074.0	57
1990	148.0	141.0	48.0	170.0	60.0	21.0	17.0	0.0	51.0	102.0	52.0	205.0	1015.0	67
1991	96.0	86.0	174.0	77.0	189.0	16.0	9.0	14.0	94.0	67.0	31.0	155.0	1008.0	65
1992	91.0	113.0	43.0	112.0	21.0	29.0	38.0	22.0	12.0	100.0	155.0	211.0	947.0	60
1993	147.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	147.0	2
1994	30.0	145.0	131.0	68.0	45.0	21.0	0.0	2.0	20.0	75.0	261.0	135.0	933.0	43
1995	75.0	92.0	73.0	45.0	29.0	8.0	2.0	11.0	24.0	26.0	73.0	105.0	563.0	34
1996	145.0	378.0	159.0	75.0	0.0	0.0	0.0	10.0	85.0	41.0			S/Dato	S/Dat

Fecha de inicio de la serie: 05/01/56  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 48 Precipitación anual media: 901.9  
 Cantidad de años con datos completos: 40  
 Cantidad de años con interrupciones : 1  
 Fecha y hora de última actualización : 11/12/96 19:33:39  
 Fecha y hora del último cálculo estadístico: 12/12/96 12:19:06

Estación: CHOROTIS  
 Ente : FCC BELGRANO

Código: 19  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1956	85.0	136.0	221.0	54.0	0.0	28.0	7.0	19.0	18.0	225.0	175.0	84.0	1052.0	44
1957	83.0	57.0	58.0	60.0	42.0	4.0	0.0	30.0	32.0	128.0	47.0	163.0	704.0	44
1958	20.0	89.0	94.0	140.0	14.0	0.0	12.0	14.0	23.0	8.0	180.0	267.0	861.0	42
1959	92.0	108.0	148.0	57.0	107.0	10.0	60.0	0.0	10.0	111.0	5.0	99.0	807.0	36
1960	58.0	67.0	77.0	110.0	0.0	19.0	32.0	35.0	17.0	211.0	125.0	171.0	922.0	41
1961	70.0	265.0	195.0	158.0	80.0	0.0	0.0	7.0	14.0	80.0	52.0	134.0	1055.0	44
1962	128.0	11.0	165.0	41.0	16.0	0.0	20.0	0.0	0.0	54.0	90.0	75.0	600.0	32
1963	71.0	97.0	48.0	81.0	25.0	0.0	12.0	13.0	51.0	31.0	46.0	149.0	624.0	34
1964	21.0	108.0	186.0	153.0	5.0	20.0	10.0	0.0	98.0	29.0	60.0	121.0	811.0	39
1965	93.0	125.0	89.0	54.0	59.0	2.0	30.0	0.0	15.0	160.0	124.0	215.0	966.0	51
1966	171.0	105.0	125.0	34.0	128.0	0.0	8.0	0.0	121.0	27.0	115.0	81.0	915.0	36
1967	227.0	158.0	149.0	23.0	176.0	30.0	7.0	91.0	33.0	69.0	81.0	52.0	1096.0	50
1968	135.0	79.0	37.0	37.0	33.0	46.0	9.0	36.0	2.0	99.0	100.0	71.0	684.0	54
1969	141.0	76.0	52.0	37.0	31.0	18.0	25.0	0.0	13.0	49.0	71.0	68.0	581.0	47
1970	135.0	37.0	141.0	86.0	89.0	12.0	27.0	24.0	68.0	10.0	37.0	185.0	851.0	49
1971	115.0	82.0	133.0	96.0	14.0	0.0	24.0	20.0	12.0	50.0	66.0	20.0	632.0	38
1972	108.0	17.0	230.0	136.0	5.0	85.0	15.0	3.0	39.0	97.0	85.0	98.0	918.0	46
1973	269.0	184.0	297.0	175.0	0.0	123.0	25.0	13.0	30.0	53.0	42.0	116.0	1327.0	54
1974	185.0	415.0	134.0	86.0	45.0	0.0	12.0	15.0	23.0	52.0	12.0	100.0	1079.0	43
1975	10.0	52.0	160.0	119.0	16.0	1.0	0.0	5.0	20.0	45.0	125.0	20.0	573.0	33
1976	28.0	87.0	292.0	0.0	0.0	0.0	0.0	9.0	0.0	52.0	112.0	135.0	715.0	26
1977	155.0	173.0	75.0	108.0	8.0	0.0	30.0	15.0	10.0	27.0	208.0	98.0	907.0	44
1978	138.0	52.0	15.0	69.0	10.0	47.0	0.0	8.0	113.0	79.0	260.0	69.0	860.0	40
1979	14.0	188.0	60.0	100.0	12.0	36.0	0.0	0.0	97.0	60.0	63.0	135.0	765.0	35
1980	60.0	58.0	258.0	130.0	43.0	3.0	4.0	0.0	17.0	27.0	71.0	55.0	726.0	35
1981	106.0	337.0	189.0	130.0	94.0	15.0	20.0	10.0	17.0	44.0	135.0	40.0	1137.0	47

Fecha de inicio de la serie: 11/01/56  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 40 Precipitación anual media: 819.5  
 Cantidad de años con datos completos: 40  
 Cantidad de años con interrupciones: 1  
 Fecha y hora de última actualización : 11/12/96 19:10:22  
 Fecha y hora del último cálculo estadístico: 12/12/96 12:20:11



Estación: CHOROTIS  
 Ente : FCC BELGRANO

Código: 19  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1982	129.0	24.0	90.0	85.0	0.0	45.0	10.0	9.0	131.0	16.0	158.0	90.0	787.0	46
1983	128.0	55.0	28.0	107.0	58.0	0.0	41.0	0.0	0.0	182.0	93.0	0.0	692.0	35
1984	67.0	220.0	219.0	51.0	14.0	33.0	10.0	0.0	106.0	45.0	79.0	75.0	919.0	55
1985	190.0	355.0	95.0	272.0	10.0	35.0	53.0	35.0	74.0	155.0	59.0	125.0	1458.0	56
1986	40.0	15.0	271.0	426.0	24.0	18.0	5.0	2.0	45.0	133.0	163.0	20.0	1162.0	36
1987	150.0	0.0	57.0	46.0	56.0	0.0	30.0	12.0	14.0	10.0	45.0	20.0	440.0	15
1988	50.0	12.0	0.0	15.0	0.0	0.0	4.0	0.0	6.0	0.0	45.0	13.0	145.0	10
1989	0.0	0.0	0.0	81.0	0.0	0.0	4.0	6.0	36.0	10.0	70.0	109.0	316.0	16
1990	93.0	87.0	51.0	93.0	26.0	8.0	9.0	0.0	31.0	83.0	155.0	64.0	700.0	45
1991	51.0	12.0	207.0	83.0	231.0	4.0	25.0	5.0	88.0	83.0	53.0	170.0	1012.0	48
1992	60.0	116.0	32.0	123.0	97.0	97.0	15.0	38.0	42.0	31.0	137.0	184.0	972.0	37
1993	111.0	83.0	130.0	79.0	35.0	0.0	4.0	0.0	0.0	81.0	67.0	26.0	616.0	39
1994	0.0	75.0	122.0	96.0	25.0	17.0	0.0	17.0	36.0	45.0	141.0	128.0	702.0	41
1995	107.0	273.0	90.0	29.0	0.0	5.0	0.0	0.0	6.0	16.0	83.0	80.0	689.0	30
1996	120.0	318.0	93.0	80.0	16.0	0.0	0.0	14.0	41.0	101.0			S/Dato	S/Dat

Fecha de inicio de la serie: 11/01/56  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 40 Precipitación anual media: 819.5  
 Cantidad de años con datos completos: 40  
 Cantidad de años con interrupciones : 1  
 Fecha y hora de última actualización : 11/12/96 19:10:22  
 Fecha y hora del último cálculo estadístico: 12/12/96 12:20:11

Estación: CORZUELA  
 Ente : FFCC BELGRANO

Código: 47  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1919	41.0	117.5	128.0	0.0	27.0	0.0	99.0	0.0	10.0	215.0	113.0	112.0	862.5	30
1920	0.0	3.0	40.0	58.0	33.0	32.0	6.0	43.0	76.0	112.0	109.0	170.0	682.0	41
1921	103.0	68.0	257.0	41.0	4.0	9.0	0.0	2.0	57.0	0.0	57.0	47.0	645.0	51
1922	0.0	48.0	14.0	165.0	235.0	74.0	86.0	0.0	52.0	43.0	66.0	150.0	933.0	46
1923	70.0	19.0	0.0	97.0	75.0	5.0	2.0	27.0	65.0	53.0	74.0	226.0	713.0	37
1924	65.0	0.0	15.0	73.0	0.0	4.0	0.0	0.0	48.0	5.0	25.0	85.0	320.0	20
1925	13.0	75.0	30.0	0.0	1.0	0.0	0.0	0.0	21.0	176.0	80.0	120.0	516.0	24
1926	125.0	30.0	125.0	26.0	30.0	0.0	0.0	37.0	19.0	16.0	246.0	125.0	779.0	38
1927	275.0	69.0	391.0	153.0	25.0	37.0	1.0	0.0	3.0	73.0	249.0	161.0	1437.0	52
1928	175.0	195.0	166.0	228.0	49.0	0.0	21.0	7.0	48.0	70.0	164.0	115.0	1238.0	45
1929	22.0	39.0	94.0	32.0	30.0	0.0	63.0	10.0	75.0	30.0	85.0	110.0	590.0	29
1930	75.0	119.0	112.0	88.0	57.0	0.0	0.0	85.0	0.0	40.0	185.0	91.0	852.0	42
1931	303.0	76.0	283.0	59.5	49.0	22.0	10.0	28.0	0.0	140.6	56.0	78.0	1105.1	50
1932	86.0	36.8	173.0	155.0	0.0	8.0	65.0	23.0	16.0	61.0	190.0	75.0	888.8	52
1956	273.0	224.5	197.0	96.0	14.0	5.0	6.0	76.0	0.0	234.0	127.0	106.0	1358.5	60
1957	95.0	63.0	94.0	143.0	39.0	2.0	0.0	35.0	65.0	123.0	32.0	336.0	1027.0	56
1958	66.0	172.0	105.0	124.0	82.0	27.0	13.0	13.0	34.0	5.0	316.0	282.0	1239.0	61
1959	241.0	230.0	87.0	95.0	113.0	7.0	66.0	5.0	59.0	133.0	32.0	208.0	1276.0	59
1960	137.0	132.0	67.0	84.0	0.0	36.0	34.0	20.0	25.0	178.0	166.0	167.0	1046.0	58
1961	76.0	222.0	244.0	294.0	15.0	35.0	0.0	5.0	15.0	107.0	292.0	213.0	1518.0	51
1962	126.0	33.0	61.0	232.0	28.0	0.0	32.0	36.0	7.0	65.0	42.0	106.0	768.0	38
1963	161.0	125.0	65.0	78.0	80.0	4.0	8.0	16.0	33.0	49.0	58.0	71.0	748.0	55
1964	19.0	62.0	225.0	104.0	67.0	31.0	16.0	0.0	22.0	56.0	40.0	101.0	743.0	40
1965	63.0	135.0	58.0	146.0	22.0	8.0	22.0	10.0	66.0	123.0	137.0	198.0	988.0	53
1966	240.0	222.0	106.0	76.0	99.0	0.0	0.0	0.0	60.0	18.0	156.0	41.0	1018.0	43
1967	243.0	179.0	64.0	86.0	58.0	8.0	31.0	55.0	58.0	36.0	76.0	69.0	963.0	59

Fecha de inicio de la serie: 11/01/19  
 Fecha de final. de la serie: 31/08/91  
 Frecuencia anual media: 47 Precipitación anual media: 908.6  
 Cantidad de años con datos completos: 49  
 Cantidad de años con interrupciones: 1  
 Fecha y hora de última actualización : 16/05/96 11:36:46  
 Fecha y hora del último cálculo estadístico: 19/11/96 09:00:36

Estación: CORZUELA  
 Ente : FCC BELGRANO

Código: 47  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1968	217.0	92.0	51.0	136.0	8.0	31.0	61.0	49.0	4.0	42.0	73.0	114.0	878.0	72
1969	117.0	295.0	41.0	65.0	24.0	20.0	30.0	0.0	13.0	117.0	29.0	63.0	814.0	44
1970	98.0	50.0	69.0	118.0	50.0	2.0	22.0	29.0	58.0	44.0	18.0	142.0	700.0	46
1971	111.0	57.0	181.0	153.0	26.0	2.0	10.0	36.0	22.0	74.0	60.0	43.0	775.0	50
1972	66.0	31.0	296.0	73.0	12.0	59.0	40.0	25.0	25.0	66.0	136.0	185.0	1014.0	61
1973	238.0	65.0	207.0	141.0	57.0	179.0	11.0	20.0	0.0	78.0	108.0	94.0	1198.0	51
1974	247.0	173.0	71.0	82.0	167.0	0.0	19.0	20.0	17.0	29.0	57.0	26.0	908.0	41
1975	51.0	28.0	205.0	96.0	52.0	50.0	5.0	20.0	15.0	13.0	152.0	27.0	714.0	36
1976	147.0	30.0	62.0	5.0	0.0	0.0	16.0	0.0	20.0	33.0	60.0	50.0	423.0	28
1977	145.0	101.0	189.0	110.0	91.0	0.0	19.0	35.0	21.0	97.0	132.0	69.0	1009.0	52
1978	94.0	114.0	37.0	32.0	10.0	0.0	0.0	0.0	30.0	98.0	170.0	107.0	692.0	37
1979	18.0	288.0	87.0	87.0	0.0	0.0	22.0	0.0	46.0	80.0	103.0	104.0	835.0	40
1980	73.0	107.0	127.0	132.0	22.0	32.0	0.0	0.0	17.0	36.0	153.0	30.0	729.0	28
1981	67.0	161.0	18.0	54.0	39.0	17.0	5.0	16.0	13.0	65.0	232.0	116.0	803.0	35
1982	112.0	161.0	135.0	75.0	48.0	61.0	16.0	42.0	108.0	59.0	124.0	304.0	1245.0	81
1983	145.0	185.0	49.0	323.0	168.0	5.0	65.0	0.0	7.0	36.0	156.0	74.0	1213.0	75
1984	300.0	85.0	151.0	103.0	20.0	56.0	0.0	0.0	77.0	72.0	159.0	70.0	1093.0	72
1985	93.0	123.0	117.0	276.0	10.0	5.0	10.0	72.0	71.0	42.0	20.0	52.0	891.0	45
1986	44.0	25.0	311.0	96.0	95.0	76.0	45.0	90.0	94.0	143.0	103.0	84.0	1206.0	50
1987	103.0	13.0	81.0	41.0	44.0	0.0	22.0	5.0	14.0	33.0	197.0	34.0	587.0	32
1988	149.0	26.0	63.0	55.0	3.0	8.0	14.0	0.0	6.0	10.0	70.0	139.0	543.0	42
1989	49.0	100.0	175.0	223.0	0.0	21.0	28.0	9.0	19.0	32.0	44.0	207.0	907.0	51
1990	145.0	115.0	54.0	247.0	73.0	30.0	15.0	0.0	37.0	202.0	70.0	104.0	1092.0	47
1991	64.0	61.0	145.0	204.0	193.0	1.0	9.0	I/Mes					S/Dato	S/Dat

Fecha de inicio de la serie: 11/01/19

Fecha de final. de la serie: 31/08/91

Frecuencia anual media: 47 Precipitación anual media: 908.6

Cantidad de años con datos completos: 49

Cantidad de años con interrupciones: 1

Fecha y hora de última actualización : 16/05/96 11:36:46

Fecha y hora del último cálculo estadístico: 19/11/96 09:00:36

Estación: DU GRATY  
 Ente : COOPERATIVA

Código: 40  
 Código: 18

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1975		110.0	168.0	118.0	72.0	75.0	5.0	0.0	0.0	0.0	114.0	42.0	S/Dato	S/Dat
1976	264.0	66.0	180.0	0.0	0.0	0.0	0.0	0.0	8.0	35.0	80.0	123.0	756.0	33
1977	249.0	181.0	240.0	94.0	98.0	6.0	63.0	15.0	11.0	103.0	123.0	43.0	1226.0	52
1978	97.0	71.0	10.0	32.0	3.0	8.0	0.0	0.0	61.0	57.0	67.0	0.0	406.0	22
1979	70.0	87.0	77.0	89.0	0.0	36.0	0.0	8.0	111.0	73.0	61.0	247.0	859.0	35
1980	128.0	55.0	151.0	162.0	80.0	0.0	0.0	2.0	38.0	37.0	203.0	125.0	981.0	39
1981	134.0	355.0	235.0	87.0	80.0	18.0	0.0	26.0	24.0	65.0	118.0	88.0	1230.0	43
1982	167.0	75.0	80.0	88.0	42.0	103.0	0.0	5.0	86.0	39.0	267.0	152.0	1104.0	55
1983	148.0	78.0	214.0	99.0	33.0	4.0	61.0	0.0	5.0	71.0	96.0	0.0	809.0	37
1984	177.0	135.0	280.0	167.0	22.0	30.0	5.0	5.0	120.0	34.0	50.0	82.0	1107.0	61
1985	60.0	366.0	45.0	162.0	32.0	11.0	18.0	37.0	14.0	52.0	121.0	114.0	1032.0	48
1986	54.0	54.0	273.0	365.0	64.0	62.0	16.0	63.0	138.0	118.0	142.0	65.0	1414.0	67
1987	235.0	92.0	89.0	99.0	103.0	0.0	53.0	18.0	56.0	9.0	385.0	101.0	1240.0	43
1988	204.0	30.0	178.0	36.0	7.0	0.0	18.0	14.0	30.0	23.0	43.0	78.0	661.0	40
1989	35.0	13.0	190.0	283.0	0.0	8.0	43.0	25.0	45.0	40.0	38.0	238.0	958.0	36
1990	99.0	186.0	93.0	136.0	30.0	9.0	13.0	0.0	18.0	161.0	71.0	141.0	957.0	45
1991	137.0	39.0	165.0	291.0	273.0	7.0	15.0	28.0	160.0	150.0	47.0	304.0	1616.0	49
1992	74.0	65.0	126.0	143.0	20.0	170.0	28.0	48.0	23.0	80.0	237.0	0.0	1014.0	31
1993	160.0	65.0	163.0	156.0	32.0	20.0	0.0	0.0	12.0	151.0	60.0	44.0	863.0	42
1994	0.0	156.0	96.0	78.0	75.0	31.0	0.0	1.0	42.0	92.0	285.0	128.0	984.0	47
1995	154.0	192.0	184.0	85.0	60.0	8.0	0.0	5.0	9.0	8.0	107.0	175.0	987.0	38
1996	97.0	250.0	87.0	197.0	48.0	0.0	0.0	20.0	60.0	94.0			S/Dato	S/Dat

Fecha de inicio de la serie: 02/02/75  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 43 Precipitación anual media: 995.6  
 Cantidad de años con datos completos: 21  
 Cantidad de años con interrupciones : 2  
 Fecha y hora de última actualización : 12/12/96 12:07:28  
 Fecha y hora del último cálculo estadístico: 12/12/96 12:20:43

Estación: HERMOSO CAMPO  
 Ente : FCC BELGRANO

Código: 6  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1956	5.0	87.0	35.0	10.0	0.0	0.0	0.0	20.0	0.0	85.0	57.0	15.0	314.0	14
1957	96.0	48.0	43.0	97.0	26.0	42.0	0.0	12.0	49.0	147.0	120.0	68.0	748.0	43
1960	60.0	51.0	58.0	180.0	0.0	0.0	50.0	6.0	16.0	160.0	129.0	178.0	888.0	39
1961	34.0	150.0	89.0	34.0	2.0	0.0	0.0	2.0	0.0	45.0	100.0	80.0	536.0	26
1963	55.0	50.0	14.0	136.0	22.0	0.0	14.0	0.0	37.0	21.0	44.0	99.0	492.0	28
1964	0.0	62.0	135.0	142.0	0.0	15.0	5.0	0.0	70.0	23.0	20.0	173.0	645.0	31
1965	69.0	87.0	110.0	138.0	7.0	2.0	7.0	0.0	30.0	193.0	152.0	203.0	998.0	39
1966	185.0	83.0	29.0	70.0	143.0	0.0	20.0	0.0	113.0	31.0	123.0	6.0	803.0	27
1967	1/Mes	1/Mes	1/Mes	45.5	82.0	49.0	9.0	81.0	46.0	45.5	30.0	17.5	S/Dato	S/Dat
1968	253.5	50.0	68.5	42.0	28.0	38.0	11.5	44.0	15.5	93.5	72.5	44.5	761.5	39
1969	188.0	91.0	55.5	79.5	12.0	28.0	24.5	0.0	53.0	15.5	15.0	64.0	626.0	31
1970	130.5	48.0	89.5	14.5	89.5	0.0	44.5	30.0	45.0	25.0	41.5	223.0	781.0	43
1971	80.0	96.5	137.5	131.0	5.0	0.0	7.0	30.0	28.0	105.5	52.0	19.0	691.5	35
1972	144.0	35.0	291.0	174.0	11.0	36.5	28.5	0.0	39.5	70.0	147.0	140.0	1116.5	41
1973	124.0	129.5	300.0	171.5	0.0	112.0	0.0	18.0	22.0	10.0	50.5	69.5	1007.0	38
1974	249.5	373.0	145.0	91.0	85.0	0.0	14.0	0.0	23.5	71.5	32.5	65.0	1150.0	46
1975	12.0	137.0	253.0	155.0	21.0	0.0	0.0	17.5	0.0	33.0	100.5	25.5	754.5	28
1976	352.5	77.5	105.5	0.0	0.0	0.0	0.0	0.0	15.0	0.0	56.0	77.0	683.5	22
1977	222.0	206.0	151.0	103.0	31.0	3.0	17.0	27.0	28.0	105.0	144.0	144.0	1181.0	40
1978	151.0	172.0	17.0	70.5	0.0	14.0	0.0	0.0	103.5	50.0	127.0	98.0	803.0	35
1979	20.0	190.0	63.0	47.0	0.0	0.0	46.0	0.0	121.0	62.0	75.0	120.0	744.0	32
1980	152.0	51.0	132.0	189.0	79.0	0.0	0.0	0.0	35.0	59.0	177.0	143.0	1017.0	35
1981	273.0	212.0	170.0	149.0	82.0	0.0	13.0	15.0	28.0	0.0	61.0	66.0	1069.0	45
1982	185.0	62.0	134.0	54.0	0.0	133.0	14.0	20.0	61.0	54.0	134.0	114.0	965.0	42
1983	99.0	71.0	231.0	15.0	40.0	2.0	50.0	0.0	30.0	48.0	68.0	0.0	654.0	30
1984	48.0	82.0	281.0	77.0	213.0	37.0	10.0	0.0	101.0	57.0	81.0	83.0	1070.0	56

Fecha de inicio de la serie: 09/01/56  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 39 Precipitación anual media: 867.9  
 Cantidad de años con datos completos: 35  
 Cantidad de años con interrupciones : 3  
 Fecha y hora de última actualización : 11/12/96 18:34:48  
 Fecha y hora del último cálculo estadístico: 12/12/96 12:18:21

Estación: HERMOSO CAMPO  
 Ente : FFCC BELGRANO

Código: 6  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1985	127.0	279.0	94.0	262.0	10.0	63.0	36.0	40.0	34.0	75.0	75.0	33.0	1128.0	53
1986	71.0	82.0	161.0	378.0	50.8	50.0	27.0	4.0	144.0	177.0	88.0	86.0	1318.8	62
1987	230.0	15.0	38.0	50.0	65.0	0.0	30.0	22.0	72.0	24.0	228.0	141.0	915.0	44
1988	170.0	22.0	112.0	41.0	5.0	1.0	7.0	5.0	17.0	35.0	58.0	77.0	550.0	41
1989	59.0	58.0	351.0	174.0	1.0	10.0	16.0	54.0	47.0	74.0	33.0	177.0	1054.0	53
1990	204.0	103.0	215.0	159.0	39.0	11.0	11.0	0.0	39.0	168.0	141.0	153.0	1243.0	54
1991	252.0	23.0	112.0	136.0	155.0	1.0	7.0	29.0	85.0	85.0	22.0	216.0	1123.0	61
1992	66.0	73.0	52.0	149.0	29.0	20.0	32.0	29.0	12.0	129.0	180.0	I/Mes	S/Dato	S/Dat
1993	127.0	35.0	75.0	145.0	15.0	0.0	7.0	0.0	3.0	213.0	106.0	58.0	784.0	37
1994	15.0	116.0	109.0	107.0	68.0	13.0	0.0	0.0	25.0	88.0	320.0	182.0	1043.0	39
1995	125.0	110.0	214.0	45.0	65.0	0.0	0.0	0.0	0.0	3.0	78.0	80.0	720.0	28
1996	137.0	192.0	93.0	192.0	2.0	0.0	0.0	0.0	63.0	125.0			S/Dato	S/Dat

Fecha de inicio de la serie: 09/01/56  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 39 Precipitación anual media: 867.9  
 Cantidad de años con datos completos: 35  
 Cantidad de años con interrupciones: 3  
 Fecha y hora de última actualización : 11/12/96 18:34:48  
 Fecha y hora del último cálculo estadístico: 12/12/96 12:18:21

Estación: ITIN  
 Ente : FFCC BELGRANO

Código: 71  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1956	140.0	142.6	105.0	57.0	3.0	15.0	8.0	10.0	0.0	164.0	120.0	69.0	833.6	43
1957	89.0	43.0	75.0	104.0	36.0	10.0	0.0	20.0	60.0	129.0	86.0	210.0	862.0	54
1958	0.0	164.0	138.0	103.0	36.0	0.0	9.0	8.0	26.0	5.0	137.0	164.0	790.0	46
1959	121.0	103.0	64.0	75.0	47.0	7.0	64.0	12.0	27.0	108.0	56.0	127.0	811.0	63
1960	157.0	55.0	138.0	119.0	5.0	28.0	48.0	12.0	17.0	142.0	113.0	213.0	1047.0	55
1961	27.0	134.0	222.0	141.0	39.0	0.0	0.0	0.0	28.0	83.0	161.0	177.0	1012.0	47
1962	126.0	28.0	109.0	57.0	0.0	0.0	20.0	30.0	2.0	51.0	38.0	49.0	510.0	32
1963	85.0	86.0	63.0	139.0	23.0	0.0	5.0	0.0	28.0	20.0	49.0	107.0	605.0	41
1964	3.0	146.0	177.0	190.0	10.0	15.0	5.0	0.0	50.0	21.0	50.0	220.0	887.0	41
1965	87.0	114.0	70.0	138.0	5.0	5.0	2.0	0.0	23.0	123.0	137.0	286.0	990.0	47
1966	244.0	137.4	26.0	64.0	77.0	0.0	22.0	0.0	103.0	20.0	127.0	44.0	864.4	45
1967	152.0	157.0	111.0	75.0	105.0	26.0	10.0	60.0	90.0	77.0	49.0	103.0	1015.0	54
1968	224.0	28.0	78.0	54.0	16.0	25.0	27.0	55.0	10.0	61.0	78.0	75.0	731.0	53
1969	112.0	135.0	44.0	54.0	19.0	28.0	25.0	0.0	40.0	105.0	26.0	68.0	656.0	35
1970	90.0	46.0	61.0	49.0	93.0	4.0	29.0	31.0	36.0	49.0	32.0	194.0	714.0	46
1971	65.0	77.0	153.0	142.0	5.0	0.0	2.0	15.0	25.0	47.0	49.0	20.0	600.0	42
1972	117.0	42.0	309.0	147.0	12.0	34.0	61.0	4.0	38.0	47.0	132.0	154.0	1097.0	53
1973	160.0	105.0	267.0	181.0	0.0	120.0	37.0	11.0	12.0	42.0	52.0	158.0	1145.0	43
1974	302.0	524.0	171.0	123.0	67.0	0.0	0.0	12.0	18.0	33.0	21.0	41.0	1312.0	41
1975	8.0	43.0	123.0	115.0	54.0	0.0	0.0	12.0	10.0	45.0	82.0	22.0	514.0	29
1976	186.0	117.0	188.0	24.0	0.0	41.0	0.0	46.0	67.0	17.0	45.0	56.0	787.0	36
1977	284.0	150.0	104.0	110.0	13.0	0.0	20.0	22.0	20.0	38.0	127.0	88.0	976.0	44
1978	249.0	117.0	49.0	90.0	10.0	5.0	0.0	0.0	100.0	70.0	215.0	140.0	1045.0	38
1979	130.0	168.0	75.0	60.0	0.0	50.0	0.0	0.0	72.0	78.0	82.0	252.0	967.0	32
1980	37.0	45.0	183.0	233.0	70.0	5.0	0.0	0.0	67.0	75.0	171.0	100.0	986.0	34
1981	117.0	200.0	37.0	130.0	92.0	20.0	0.0	5.0	29.0	27.0	125.0	90.0	872.0	29

Fecha de inicio de la serie: 05/01/56  
 Fecha de final. de la serie: 16/12/87  
 Frecuencia anual media: 43 Precipitación anual media: 888.6  
 Cantidad de años con datos completos: 32  
 Cantidad de años con interrupciones : 0  
 Fecha y hora de última actualización : 17/05/96 11:25:17  
 Fecha y hora del último cálculo estadístico: 19/11/96 09:04:26

Estación: ITIN  
Ente : FCC BELGRANO

Código: 71  
Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1982	258.0	122.0	125.0	47.0	0.0	78.0	7.0	0.0	73.0	93.0	158.0	244.0	1205.0	43
1983	95.0	98.0	124.0	70.0	42.0	0.0	60.0	0.0	0.0	57.0	106.0	50.0	702.0	34
1984	70.0	128.0	192.0	85.0	56.0	44.0	27.0	10.0	72.0	119.0	120.0	48.0	971.0	48
1985	169.0	321.0	102.0	210.0	13.0	10.0	35.0	43.0	0.0	137.0	45.0	110.0	1195.0	45
1986	25.0	82.0	80.0	320.0	0.0	40.0	38.0	20.0	180.0	171.0	70.0	100.0	1126.0	39
1987	100.0	45.0	56.0	62.0	55.0	0.0	21.0	17.0	20.0	10.0	140.0	80.0	606.0	27

Fecha de inicio de la serie: 05/01/56  
Fecha de final. de la serie: 16/12/87  
Frecuencia anual media: 43 Precipitación anual media: 888.6  
Cantidad de años con datos completos: 32  
Cantidad de años con interrupciones : 0  
Fecha y hora de última actualización : 17/05/96 11:25:17  
Fecha y hora del último cálculo estadístico: 19/11/96 09:04:26

Estación: LA CLOTILDE  
 Ente : COOPERATIVA

Código: 59  
 Código: 18

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1977	57.0	47.0	125.0	113.0	66.0	5.0	0.0	39.0	29.0	73.0	126.0	60.0	740.0	30
1978	80.0	57.0	0.0	44.0	0.0	16.0	0.0	0.0	30.0	60.5	128.0	112.0	527.5	28
1979	65.0	210.0	110.0	69.0	0.0	0.0	30.0	0.0	46.0	71.0	85.0	184.0	870.0	33
1980	86.0	80.5	103.0	277.0	79.0	46.0	0.0	0.0	32.0	71.0	162.0	66.0	1002.5	38
1981	237.0	126.5	236.0	47.0	131.0	17.0	22.0	0.0	31.0	46.0	99.0	97.0	1089.5	42
1982	162.0	129.0	46.0	145.0	10.0	33.0	18.0	8.0	124.5	69.0	188.0	127.0	1059.5	33
1983	123.0	65.0	50.0	267.0	60.0	0.0	41.0	0.0	0.0	20.5	96.0	67.0	789.5	32
1984	202.5	114.0	336.0	180.0	31.0	23.0	0.0	0.0	103.0	134.0	93.0	108.0	1324.5	52
1985	104.0	204.0	163.0	260.0	116.0	18.0	29.0	84.0	73.0	92.0	33.0	220.0	1396.0	52
1986	22.0	59.0	379.0	352.0	50.0	101.0	53.0	115.0	152.0	138.0	152.0	47.0	1620.0	45
1987	114.0	53.0	88.0	83.0	125.0	0.0	54.0	17.0	38.0	39.0	111.0	93.0	815.0	42
1988	68.0	32.0	157.0	92.0	41.0	0.0	0.0	0.0	16.0	0.0	49.0	104.0	559.0	25
1989	10.0	53.0	206.0	289.0	0.0	0.0	0.0	0.0	38.0	35.0	45.0	176.0	852.0	25
1990	98.0	44.0	79.0	100.0	39.0	16.0	3.0	0.0	29.0	248.0	39.0	184.0	879.0	41
1991	168.0	108.0	177.0	214.0	292.0	5.0	39.0	15.0	111.0	114.0	81.0	139.0	1463.0	64
1992	200.0	132.0	108.0	164.0	15.0	110.0	44.0	21.0	21.0	249.0	273.0	174.0	1511.0	53
1993	94.0	35.0	117.0	152.0	9.0	0.0	0.0	0.0	5.0	45.0	160.0	124.0	741.0	34
1994	52.0	179.0	121.0	72.0	72.0	79.0	0.0	9.0	59.0	156.0	198.0	70.0	1067.0	45
1995	123.0	157.0	86.0	31.0	56.0	20.0	3.0	16.0	107.0	36.0	42.0	101.0	778.0	40

Fecha de inicio de la serie: 30/01/77

Fecha de final. de la serie: 25/12/95

Frecuencia anual media: 40 Precipitación anual media: 1004.4

Cantidad de años con datos completos: 19

Cantidad de años con interrupciones: 0

Fecha y hora de última actualización : 28/10/96 07:44:46

Fecha y hora del último cálculo estadístico: 19/11/96 09:01:40

Estación: LA TIGRA  
Ente : OTRO

Código: 56  
Código: 16

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1978	135.0	149.0	23.0	29.0	5.0	14.0	0.0	0.0	45.0	81.0	160.0	93.0	734.0	43
1979	123.0	212.0	101.0	87.0	3.0	16.0	0.0	10.0	38.0	84.0	105.0	197.0	976.0	45
1980	65.0	101.0	127.0	206.0	102.0	49.0	11.0	1.0	45.0	125.0	270.0	78.0	1180.0	46
1981	232.0	322.0	210.0	88.0	112.0	13.0	0.0	51.0	0.0	52.0	143.0	181.0	1404.0	52
1982	201.0	168.0	139.0	112.0	15.0	49.0	20.0	18.0	118.0	37.0	75.0	244.0	1196.0	45
1983	176.0	106.0	184.0	186.0	139.0	0.0	38.0	0.0	0.0	26.0	163.0	106.0	1124.0	33
1984	188.0	124.0	327.0	185.0	55.0	24.0	2.0	15.0	79.0	106.0	197.0	49.0	1351.0	61
1985	146.0	170.0	155.0	247.0	97.0	15.0	16.0	73.0	79.0	73.0	62.0	241.0	1374.0	56
1986	46.0	160.0	806.0	530.0	63.0	93.0	50.0	90.0	155.0	180.0	132.0	8.0	2313.0	42
1987	114.0	30.0	70.0	106.0	110.0	0.0	43.0	52.0	18.0	70.0	153.0	94.0	860.0	38
1988	107.0	31.0	166.0	112.0	8.0	0.0	8.0	10.0	19.0	45.0	70.0	139.0	715.0	34
1989	55.0	71.0	232.0	258.0	0.0	34.0	32.0	41.0	41.0	46.0	35.0	183.0	1028.0	44
1990	145.0	112.0	122.0	396.0	78.0	50.0	34.0	0.0	34.0	250.0	27.0	171.0	1419.0	55
1991	148.0	61.0	171.0	210.0	397.0	5.0	35.0	7.0	83.0	109.0	49.0	137.0	1412.0	60
1992	199.0	141.0	38.0	153.0	13.0	90.0	20.0	42.0	33.0	227.0	206.0	262.0	1424.0	48
1993	90.0	55.0	109.0	125.0	14.0	0.0	2.0	0.0	5.0	36.0	238.0	119.0	793.0	38
1994	70.0	219.0	163.0	67.0	92.0	76.0	0.0	10.0	31.0	145.0	238.0	128.0	1239.0	46
1995	148.0	119.0	128.0	75.0	100.0	5.0	10.0	4.0	17.0	32.0	47.0	123.0	808.0	43

Fecha de inicio de la serie: 06/01/78

Fecha de final. de la serie: 25/12/95

Frecuencia anual media: 46 Precipitación anual media: 1186.1

Cantidad de años con datos completos: 18

Cantidad de años con interrupciones: 0

Fecha y hora de última actualización : 28/10/96 07:44:31

Fecha y hora del último cálculo estadístico: 19/11/96 09:01:07

Estación: LAS BREÑAS  
 Ente : I.N.T.A.

Código: 4  
 Código: 11

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Prec.
1937				90.8	9.6	49.7	0.0	0.0	11.3	26.5	63.9	37.3	S/Dato	S/Dat
1938	178.2	134.1	78.7	161.9	39.3	4.5	0.0	8.0	35.5	37.5	42.8	16.0	736.5	49
1939	61.5	193.9	112.0	89.0	4.5	34.0	11.2	42.7	72.5	162.0	123.5	131.0	1037.8	59
1940	150.0	142.0	157.5	75.7	61.4	8.8	49.7	93.6	82.7	64.9	66.7	184.0	1137.0	64
1941	180.2	120.5	159.6	64.8	98.5	32.7	31.1	5.6	6.2	40.3	144.5	56.1	940.1	62
1942	140.7	144.1	78.1	90.9	26.5	37.9	7.4	19.9	11.0	10.9	80.7	65.8	713.9	57
1943	28.9	90.1	175.2	171.2	15.7	2.5	22.6	3.5	57.0	49.6	139.1	22.9	778.3	54
1944	28.0	85.2	151.4	34.2	37.1	32.0	0.0	1.6	58.2	97.3	58.5	68.3	651.8	44
1945	159.8	90.1	223.0	90.8	2.8	0.0	2.0	0.0	53.8	42.5	93.2	62.8	820.8	48
1946	163.4	58.0	173.9	91.7	25.9	28.3	2.1	6.9	37.6	9.0	170.3	50.9	818.0	61
1947	54.7	28.7	96.3	51.4	31.2	39.6	38.2	71.1	34.6	128.0	25.1	27.3	626.2	63
1948	145.6	27.2	75.6	74.6	8.8	15.4	0.8	0.0	18.3	34.4	82.6	89.0	572.3	55
1949	184.7	180.4	43.1	42.5	15.6	21.7	50.4	0.4	30.1	105.7	101.0	153.8	929.4	67
1950	113.7	261.0	31.0	42.3	17.6	53.1	6.2	0.0	16.9	135.5	52.4	52.6	782.3	58
1951	121.4	118.6	112.1	89.6	24.9	34.0	1.4	23.1	32.0	148.3	81.4	291.8	1078.6	64
1952	80.3	67.7	31.0	37.4	76.0	14.0	5.2	52.9	10.2	113.6	133.4	133.1	754.8	58
1953	70.9	11.7	111.0	89.0	71.5	108.3	0.0	0.0	23.2	244.1	114.8	130.9	975.4	57
1954	156.1	32.0	150.8	20.2	3.0	14.8	14.8	7.4	0.0	102.1	45.5	69.4	616.1	60
1955	39.3	103.8	268.9	49.5	36.2	29.2	6.0	0.0	0.0	26.6	111.6	163.5	834.6	69
1956	349.5	189.2	201.7	96.3	19.5	6.3	11.4	55.0	5.3	129.7	112.1	102.4	1278.4	84
1957	120.0	55.7	100.8	88.9	32.5	13.2	0.5	36.0	53.3	103.5	54.6	259.1	918.1	72
1958	37.7	168.8	159.2	143.8	21.1	12.6	24.6	20.9	33.9	9.0	260.3	155.8	1047.7	85
1959	111.2	362.0	71.3	58.1	97.1	11.0	54.8	6.6	58.0	113.9	73.1	168.7	1185.8	84
1960	140.8	156.0	68.7	127.6	4.2	25.5	40.4	46.2	32.4	170.4	179.1	127.7	1119.0	80
1961	44.5	114.1	199.9	142.1	16.5	22.1	3.5	17.0	22.4	84.6	148.8	271.2	1086.7	75
1962	133.9	56.0	65.5	86.7	31.8	4.5	41.9	32.3	4.3	60.5	54.1	98.9	670.4	59

Fecha de inicio de la serie: 01/04/37  
 Fecha de final. de la serie: 21/05/87  
 Frecuencia anual media: 72 Precipitación anual media: 934.0  
 Cantidad de años con datos completos: 50  
 Cantidad de años con interrupciones: 2  
 Fecha y hora de última actualización : / /  
 Fecha y hora del último cálculo estadístico: 19/11/96 08:47:24

Estación: LAS BREÑAS  
 Ente : I.N.T.A.

Código: 4  
 Código: 11

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1963	156.5	148.0	51.3	52.1	54.0	10.1	24.7	1.6	45.0	58.5	70.5	72.1	744.4	88
1964	15.5	130.1	162.9	94.7	47.6	11.9	10.0	16.6	38.5	39.6	55.0	110.4	732.8	61
1965	76.1	150.9	97.7	109.2	8.6	3.5	10.5	5.5	95.1	107.2	146.4	277.6	1088.3	69
1966	235.3	279.9	121.2	48.2	118.1	2.5	16.4	0.0	67.7	16.5	128.4	52.5	1086.7	67
1967	234.8	158.4	115.4	71.1	45.3	17.5	18.2	30.6	71.0	26.0	71.6	42.3	902.2	85
1968	196.5	159.0	44.9	48.1	5.7	32.5	45.2	42.2	16.1	75.4	76.1	47.5	789.2	90
1969	167.2	217.0	110.7	63.5	34.2	30.4	26.5	8.7	18.6	34.3	37.2	83.0	831.3	68
1970	86.6	53.9	37.4	45.5	72.1	11.7	39.3	20.3	51.7	48.0	69.4	147.6	683.5	76
1971	158.1	79.1	156.9	157.3	37.1	6.4	9.6	67.7	7.5	53.0	82.0	18.3	833.0	76
1972	62.2	82.2	276.0	101.1	13.2	43.3	54.7	13.7	32.6	72.1	162.9	245.6	1159.6	95
1973	316.3	127.4	244.0	171.5	28.9	140.7	14.1	14.5	8.7	62.5	141.6	107.8	1378.0	98
1974	285.7	351.3	152.9	122.0	79.3	6.4	21.0	25.2	25.2	24.2	32.6	56.4	1182.2	84
1975	64.5	92.7	297.2	118.2	63.2	52.4	5.8	24.5	32.1	32.8	180.7	49.9	1014.0	87
1976	196.2	59.0	125.8	17.6	7.6	8.4	3.0	4.3	16.3	81.4	64.8	95.7	680.1	72
1977	188.3	85.6	231.2	95.2	63.8	10.8	13.3	34.1	12.3	111.5	207.3	68.7	1122.1	94
1978	86.3	123.8	13.6	36.5	8.5	5.8	0.0	0.0	37.7	116.3	153.9	65.8	648.2	60
1979	102.7	198.3	78.7	129.6	0.0	2.5	45.9	8.3	46.7	76.1	144.4	294.7	1127.9	84
1980	67.6	166.5	73.2	180.6	90.1	29.4	6.6	2.1	33.0	56.3	244.4	85.9	1035.7	74
1981	170.8	253.3	155.5	97.4	70.2	19.4	2.9	20.9	12.7	53.2	150.3	144.4	1151.0	81
1982	141.6	115.7	94.0	77.3	24.1	81.9	18.3	4.1	93.9	59.3	109.4	168.3	987.9	93
1983	163.7	108.7	28.1	288.7	108.5	0.9	39.8	2.5	5.5	39.1	131.6	54.1	971.2	81
1984	242.5	181.2	201.1	149.0	36.8	35.5	1.8	18.5	61.0	137.8	142.6	43.9	1251.7	105
1985	203.8	137.2	158.1	241.6	69.7	31.0	26.6	54.5	61.1	70.4	125.1	173.1	1352.2	107
1986	28.8	65.7	316.7	302.8	89.5	97.8	55.0	31.1	120.5	129.6	188.2	124.4	1550.1	97
1987	134.1	43.6	42.9	0.0	36.0								S/Dato	S/Dat

Fecha de inicio de la serie: 01/04/37  
 Fecha de final. de la serie: 21/05/87  
 Frecuencia anual media: 72 Precipitación anual media: 934.0  
 Cantidad de años con datos completos: 50  
 Cantidad de años con interrupciones: 2  
 Fecha y hora de última actualización : / /  
 Fecha y hora del último cálculo estadístico: 19/11/96 08:47:24

Estación: NAPENAY  
 Ente : FCC BELGRANO

Código: 38  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1954	28.0	102.0	156.0	55.0	31.0	10.0	6.0	7.0	12.0	83.0	5.0	73.0	568.0	36
1955	70.0	139.0	296.0	135.0	37.0	37.0	13.0	2.0	6.0	145.0	74.0	191.0	1145.0	54
1956	191.0	270.0	213.0	142.0	17.0	5.0	15.0	66.0	8.0	170.0	67.0	143.0	1307.0	66
1957	226.0	56.0	109.0	90.0	50.0	4.0	0.0	20.0	85.0	143.0	58.0	417.7	1258.7	63
1958	95.0	128.0	98.0	128.0	23.0	6.0	25.0	23.0	70.0	14.0	177.0	162.0	949.0	53
1959	201.5	239.0	150.0	60.0	101.0	23.0	48.0	9.0	85.0	191.0	18.0	131.0	1256.5	62
1960	129.0	155.0	93.0	65.0	0.0	59.0	28.0	34.0	30.0	202.0	165.0	137.0	1097.0	57
1961	77.0	334.0	176.0	152.0	49.0	17.0	0.0	10.2	2.0	56.0	191.0	207.0	1271.2	57
1962	175.0	64.0	91.0	121.0	27.0	0.0	40.0	30.0	7.0	92.0	34.0	102.0	783.0	47
1963	105.0	181.0	48.0	134.0	26.0	16.0	21.0	0.0	47.0	43.0	80.0	95.0	796.0	54
1964	5.0	99.0	164.0	150.0	93.0	0.0	21.0	8.0	33.0	54.0	38.0	82.0	747.0	45
1965	117.0	158.0	36.0	231.0	9.0	6.7	18.0	13.0	59.0	133.0	140.0	253.0	1173.7	56
1966	211.0	311.0	100.0	116.0	42.0	3.0	5.0	0.0	46.0	29.0	203.0	38.0	1104.0	46
1967	261.0	257.0	77.0	46.0	44.0	12.0	0.0	43.0	41.0	31.0	84.0	52.0	948.0	59
1968	0.0	126.0	57.0	50.0	30.2	25.0	32.0	41.0	31.0	41.0	61.0	131.0	625.2	52
1969	104.0	140.0	128.0	83.0	44.0	8.0	32.0	3.0	46.0	144.0	36.0	99.0	867.0	50
1970	78.0	100.0	95.0	34.0	64.0	0.0	29.0	29.0	112.0	85.0	19.0	130.0	775.0	45
1971	65.0	85.0	152.0	139.0	5.0	10.0	13.0	39.0	5.0	67.0	45.0	8.0	633.0	43
1972	119.0	62.0	100.0	153.0	56.0	31.0	40.0	0.0	14.0	0.0	179.0	111.0	865.0	40
1973	274.0	38.0	170.0	80.0	20.0	85.0	33.0	20.0	1.0	45.0	108.0	78.0	952.0	44
1974	198.0	191.0	68.0	28.0	125.0	15.0	10.0	26.0	27.0	30.0	16.0	91.0	825.0	42
1975	78.0	33.0	322.0	98.0	25.0	50.0	0.0	44.0	10.0	15.0	182.0	94.0	951.0	36
1976	56.0	29.0	118.0	4.0	5.0	0.0	0.0	0.0	39.0	81.0	88.0	72.0	492.0	27
1977	111.0	72.0	96.0	66.0	46.0	2.0	18.0	29.0	40.0	59.0	127.0	45.0	711.0	43
1978	96.0	157.0	5.0	7.0	5.0	4.0	0.0	0.0	22.0	36.0	64.0	0.0	396.0	22
1979	0.0	150.0	96.0	75.0	0.0	0.0	0.0	15.0	43.0	98.0	106.0	393.0	976.0	29

Fecha de inicio de la serie: 02/01/54  
 Fecha de final. de la serie: 07/12/89  
 Frecuencia anual media: 45 Precipitación anual media: 908.9  
 Cantidad de años con datos completos: 36  
 Cantidad de años con interrupciones : 0  
 Fecha y hora de última actualización : 28/05/96 11:35:21  
 Fecha y hora del último cálculo estadístico: 19/11/96 08:57:10

Estación: NAPENAY  
 Ente : FFCC BELGRANO

Código: 38  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1980	93.0	70.0	46.0	173.0	122.0	34.0	0.0	3.0	0.0	28.0	125.0	100.0	794.0	39
1981	109.0	107.0	80.0	77.0	60.0	7.0	0.0	44.0	25.0	0.0	149.0	47.0	705.0	38
1982	70.0	127.0	90.0	172.0	20.0	16.0	0.0	3.0	51.0	31.0	95.0	235.0	910.0	35
1983	257.0	116.0	43.0	350.0	72.0	0.0	16.0	0.0	0.0	24.0	162.0	19.0	1059.0	36
1984	225.0	161.0	202.0	125.0	40.0	65.0	0.0	10.0	40.0	30.0	117.0	10.0	1025.0	47
1985	55.0	150.0	130.0	255.0	18.0	25.0	9.0	33.0	82.5	38.0	61.0	114.0	970.5	48
1986	27.0	207.0	431.0	85.0	85.0	80.0	50.0	15.0	112.0	195.0	220.0	130.0	1637.0	54
1987	233.0	37.0	50.0	130.0	101.0	0.0	45.0	0.0	0.0	82.0	199.0	116.5	993.5	41
1988	60.0	75.0	85.0	45.0	0.0	0.0	15.0	0.0	20.0	31.0	80.0	80.0	491.0	14
1989	0.0	43.0	155.0	169.0	2.0	8.0	3.0	17.0	17.0	30.0	0.0	220.0	664.0	27

Fecha de inicio de la serie: 02/01/54

Fecha de final. de la serie: 07/12/89

Frecuencia anual media: 45 Precipitación anual media: 908.9

Cantidad de años con datos completos: 36

Cantidad de años con interrupciones : 0

Fecha y hora de última actualización : 28/05/96 11:35:21

Fecha y hora del último cálculo estadístico: 19/11/96 08:57:10

Estación: BRUA  
Ente : OTRO

Código: 85  
Código: 16

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1969	255.0	173.0	31.0	62.0	5.0	4.0	25.0	0.0	69.0	98.0	39.0	60.0	821.0	30
1970	118.0	53.0	83.0	51.0	137.0	2.0	41.0	19.0	31.0	36.0	48.0	206.0	825.0	38
1971	101.0	39.0	147.0	117.0	0.0	0.0	18.0	63.0	19.0	71.0	39.0	9.0	623.0	40
1972	78.0	35.0	371.0	126.0	2.0	31.0	24.0	5.0	44.0	54.0	130.0	128.0	1028.0	54
1973	254.0	102.0	250.0	186.0	0.0	138.0	7.0	21.0	15.0	16.0	73.0	136.0	1198.0	47
1974	192.0	317.0	87.0	117.0	55.0	0.0	11.0	8.0	21.0	60.0	10.0	50.0	928.0	43
1975	14.0	102.0	233.0	90.0	36.0	12.0	0.0	27.0	8.0	46.0	83.0	40.0	691.0	41
1976	469.0	83.0	146.0	0.0	5.0	0.0	0.0	0.0	15.0	31.0	82.0	111.0	942.0	29
1977	194.0	136.0	155.0	90.0	41.0	0.0	18.0	23.0	17.0	96.0	161.0	143.0	1074.0	49
1978	127.0	174.0	63.0	70.0	6.0	14.0	0.0	0.0	69.0	59.0	135.0	132.0	849.0	41
1979	87.0	203.0	38.0	58.0	0.0	0.0	54.0	2.0	109.0	71.0	71.0	181.0	874.0	41
1980	108.0	77.0	143.0	214.0	37.0	10.0	0.0	3.0	53.0	70.0	190.0	93.0	998.0	54
1981	158.0	271.0	187.0	74.0	70.0	6.0	8.0	7.0	20.0	19.0	108.0	60.0	988.0	59
1982	163.0	81.0	61.0	67.0	0.0	111.0	10.0	98.0	107.0	119.0	78.0	250.0	1145.0	47
1983	119.0	75.0	169.0	45.0	38.0	0.0	42.0	0.0	10.0	56.0	87.0	108.0	749.0	41
1984	204.0	126.0	325.0	116.0	15.0	16.0	6.0	6.0	62.0	90.0	87.0	83.0	1136.0	56
1985	108.0	266.0	89.0	195.0	56.0	18.0	15.0	42.0	4.0	140.0	77.0	47.0	1057.0	51
1986	47.0	77.0	159.0	295.0	69.0	60.0	19.0	12.0	197.0	129.0	106.0	106.0	1276.0	60
1987	183.0	58.0	76.0	74.0	45.0	6.0	0.0	23.0	66.0	28.0	303.0	121.0	983.0	43
1988	89.0	15.0	160.0	26.0	6.0	4.0	10.0	7.0	25.0	19.0	59.0	86.0	506.0	34
1989	52.0	86.0	234.0	219.0	3.0	26.0	32.0	32.0	22.0	75.0	46.0	172.0	999.0	46
1990	84.0	110.0	129.0	214.0	40.0	3.0	33.0	0.0	21.0	190.0	91.0	139.0	1054.0	43
1991	164.0	25.0	239.0	213.0	141.0	6.0	7.0	22.0	83.0	101.0	40.0	202.0	1243.0	55
1992	29.0	85.0	26.0	136.0	19.0	12.0	26.0	37.0	3.0	104.0	152.0	46.0	675.0	38

Fecha de inicio de la serie: 01/01/69  
Fecha de final. de la serie: 02/12/92  
Frecuencia anual media: 45 Precipitación anual media: 944.3  
Cantidad de años con datos completos: 24  
Cantidad de años con interrupciones: 0  
Fecha y hora de última actualización : 20/05/96 11:30:43  
Fecha y hora del último cálculo estadístico: 19/11/96 09:06:22

Estación: PETROVICH  
 Ente : PARTICULAR

Código: 87  
 Código: 14

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1967	304.0	228.0	112.0	72.0	25.0	15.0	12.0	65.0	20.0	28.0	116.0	57.0	1054.0	36
1968	193.0	21.0	25.0	56.0	18.0	43.0	35.0	68.0	15.0	60.0	96.0	67.0	697.0	35
1969	145.0	136.0	59.0	58.0	30.0	9.0	33.0	0.0	15.0	212.0	59.0	30.0	786.0	30
1970	110.0	117.0	56.0	40.0	84.0	0.0	50.0	40.0	107.0	62.0	15.0	99.0	780.0	28
1971	57.0	73.0	134.0	80.0	15.0	0.0	25.0	15.0	15.0	54.0	43.0	26.0	537.0	29
1972	48.0	81.0	202.0	40.0	91.0	35.0	5.0	0.0	15.0	69.0	99.0	135.0	820.0	30
1973	475.0	43.0	313.0	101.0	37.0	63.0	54.0	10.0	5.0	53.0	56.0	133.0	1343.0	41
1974	160.0	184.0	140.0	217.0	128.0	16.0	15.0	11.0	15.0	51.0	185.0	98.0	1220.0	39
1975	86.0	21.0	276.0	141.0	60.0	66.0	0.0	0.0	0.0	15.0	135.0	12.0	812.0	26
1976	83.0	43.0	40.0	0.0	12.0	5.0	35.0	0.0	10.0	76.0	63.0	70.0	437.0	24
1977	162.0	30.0	85.0	95.0	69.0	10.0	18.0	35.0	0.0	58.0	127.0	93.0	782.0	30
1978	136.0	151.0	47.0	24.0	5.0	29.0	5.0	0.0	35.0	121.0	126.0	173.0	852.0	34
1979	124.0	235.0	89.0	121.0	12.0	0.0	55.0	49.0	52.0	101.0	126.0	269.0	1233.0	39
1980	163.0	83.0	162.0	223.0	90.0	40.0	2.0	50.0	40.0	146.0	266.0	55.0	1320.0	50
1981	351.0	214.0	201.0	80.0	86.0	22.0	3.0	30.0	40.0	60.0	145.0	76.0	1308.0	46
1982	81.0	159.0	204.0	94.0	33.0	35.0	16.0	43.0	141.0	45.0	169.0	206.0	1226.0	43
1983	239.0	145.0	99.0	376.0	194.0	0.0	16.0	0.0	23.0	10.0	119.0	72.0	1293.0	30
1984	342.0	219.0	343.0	171.0	22.0	19.0	0.0	15.0	62.0	175.0	191.0	95.0	1654.0	46
1985	101.0	101.0	9.0	366.0	66.0	0.0	30.0	47.0	63.0	20.0	45.0	132.0	980.0	38
1986	20.0	122.0	491.0	426.0	140.0	34.0	150.0	17.0	172.0	240.0	205.0	113.0	2130.0	46
1987	66.0	41.0	61.0	233.0	64.0	17.0	44.0	51.0	5.0	66.0	180.0	130.0	958.0	46
1988	64.0	53.0	102.0	90.0	0.0	0.0	0.0	13.0	13.0	0.0	50.0	65.0	450.0	16
1989	40.0	60.0	272.0	247.0	17.0	0.0	15.0	55.0	43.0	40.0	34.0	150.0	973.0	29
1990	163.0	45.0	40.0	245.0	104.0	20.0	80.0	0.0	86.0	356.0	47.0	175.0	1361.0	35
1991	58.0	35.0	178.0	149.0	232.0								S/Dato	S/Dat

Fecha de inicio de la serie: 03/01/67  
 Fecha de final. de la serie: 21/05/91  
 Frecuencia anual media: 35 Precipitación anual media: 1041.9  
 Cantidad de años con datos completos: 24  
 Cantidad de años con interrupciones: 1  
 Fecha y hora de última actualización : 23/05/96 09:51:28  
 Fecha y hora del último cálculo estadístico: 19/11/96 09:06:42

Estación: GRAL. PINEDO  
 Ente : OTRO

Código: 7  
 Código: 16

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1954	117.0	53.0	99.0	38.0	5.0	15.0	30.0	4.0	3.0	38.0	6.0	48.0	456.0	37
1955	71.0	108.0	175.0	19.0	4.0	23.0	6.0	0.0	0.0	1.0	89.0	203.0	699.0	40
1956	234.0	165.9	105.0	48.0	5.0	15.0	5.0	36.0	9.0	182.0	132.0	99.0	1035.9	55
1957	124.0	46.0	98.0	62.0	40.0	8.0	0.0	20.0	61.0	158.0	67.0	202.0	886.0	56
1958	0.0	136.0	196.0	84.0	20.0	3.0	4.0	9.0	39.0	3.0	193.0	157.0	844.0	53
1959	184.0	92.0	59.0	64.0	52.0	9.0	54.0	9.0	34.0	131.0	103.0	132.0	923.0	58
1960	138.0	104.0	159.0	80.0	5.0	33.0	21.0	20.0	27.0	152.0	143.0	174.0	1056.0	51
1961	48.0	110.0	226.0	113.0	43.0	12.0	2.0	2.0	10.0	87.0	151.0	166.0	970.0	48
1962	106.0	80.0	74.0	64.0	0.0	0.0	29.0	26.0	3.0	56.0	30.0	80.0	548.0	30
1963	43.0	163.0	39.0	134.0	52.0	5.0	5.0	2.0	34.0	0.0	61.0	79.0	617.0	49
1964	2.0	117.0	202.0	169.0	11.0	3.0	12.0	0.0	49.0	37.0	66.0	141.0	809.0	47
1965	101.0	216.0	68.0	121.0	4.0	3.0	7.0	7.0	29.0	118.0	113.0	234.0	1021.0	51
1966	218.0	190.0	45.0	46.0	85.0	0.0	10.0	0.0	54.0	25.0	113.0	44.0	830.0	47
1967	209.0	177.0	191.0	97.0	130.0	31.0	28.0	81.0	100.0	69.0	30.0	40.0	1183.0	62
1968	199.0	33.0	42.0	69.0	15.0	43.0	27.0	70.0	4.0	80.0	79.0	121.0	782.0	63
1969	108.0	250.0	24.0	50.0	27.0	13.0	25.0	4.0	30.0	101.0	39.0	70.0	741.0	39
1970	74.0	55.0	54.0	46.0	83.0	2.0	46.0	37.0	73.0	51.0	38.0	236.0	795.0	44
1971	107.0	61.0	131.0	113.0	1.0	0.0	24.0	13.0	21.0	62.0	77.0	15.0	625.0	41
1972	64.0	20.0	267.0	111.0	10.0	41.0	29.0	6.0	4.0	47.0	137.0	202.0	938.0	49
1973	253.0	90.0	218.0	187.0	2.0	128.0	24.0	8.0	58.0	30.0	90.0	152.0	1240.0	55
1974	144.0	316.0	129.0	70.0	70.0	0.0	6.0	12.0	15.0	49.0	9.0	30.0	850.0	50
1975	71.0	139.0	188.0	138.0	38.0	54.0	0.0	22.0	12.0	129.0	54.0	55.0	900.0	44
1976	320.0	106.0	138.0	7.0	0.0	0.0	0.0	0.0	16.0	47.0	92.0	58.0	784.0	35
1977	64.0	197.0	102.0	16.0	77.0	0.0	18.0	20.0	35.0	84.0	145.0	126.0	884.0	43
1978	121.0	108.0	39.0	91.0	8.0	0.0	0.0	0.0	63.0	68.0	214.0	80.0	792.0	36
1979	32.0	201.0	91.0	64.0	0.0	0.0	42.0	0.0	32.0	12.0	111.0	176.0	761.0	34

Fecha de inicio de la serie: 11/01/54  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 44 Precipitación anual media: 874.3  
 Cantidad de años con datos completos: 42  
 Cantidad de años con interrupciones: 1  
 Fecha y hora de última actualización : 10/12/96 17:24:22  
 Fecha y hora del último cálculo estadístico: 12/12/96 12:18:43

Estación: GRAL. PINEDO  
 Ente : OTRO

Código: 7  
 Código: 16

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1980	57.0	20.0	152.0	269.0	75.0	0.0	0.0	0.0	42.0	50.0	234.0	110.0	1009.0	37
1981	310.0	271.0	157.0	218.0	58.0	0.0	0.0	10.0	5.0	36.0	93.0	71.0	1229.0	45
1982	147.0	65.0	95.0	62.0	0.0	39.0	0.0	2.0	130.0	117.0	147.0	197.0	1001.0	40
1983	251.0	84.0	99.0	126.0	46.0	0.0	53.0	0.0	0.0	55.0	135.0	79.0	928.0	31
1984	137.0	99.0	325.0	82.0	0.0	0.0	0.0	5.0	66.0	180.0	108.0	59.0	1061.0	38
1985	106.0	370.0	77.0	263.0	0.0	23.0	25.0	50.0	56.0	58.0	125.0	143.0	1296.0	44
1986	64.0	84.0	264.0	462.0	62.0	58.0	27.0	55.0	85.0	70.0	75.0	45.0	1351.0	48
1987	157.0	86.0	69.0	39.0	50.0	0.0	27.0	18.0	53.0	48.0	295.0	52.0	894.0	40
1988	105.0	26.0	65.0	50.0	0.0	0.0	7.0	0.0	24.0	14.0	30.0	200.0	521.0	31
1989	63.0	37.0	201.0	226.0	7.0	17.0	37.0	42.0	26.0	27.0	38.0	228.0	949.0	42
1990	146.0	143.0	38.0	140.0	46.0	13.0	20.0	0.0	5.0	97.0	36.0	141.0	825.0	40
1991	126.0	40.0	102.0	140.0	166.0	23.0	67.0	24.0	80.0	35.0	14.0	209.0	1026.0	46
1992	100.0	62.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	192.0	11
1993	100.0	32.0	142.0	72.0	24.0	0.0	0.0	0.0	7.0	47.0	166.0	89.0	679.0	44
1994	11.0	107.0	113.0	181.0	18.0	19.0	0.0	0.0	35.0	78.0	328.0	199.0	1089.0	42
1995	109.0	115.0	210.0	15.0	15.0	7.0	0.0	8.0	15.0	21.0	50.0	135.0	700.0	35
1996	160.0	369.0	33.0	38.0	2.0	0.0	0.0	20.0	49.0	63.0			S/Dato	S/Dat

Fecha de inicio de la serie: 11/01/54  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 44 Precipitación anual media: 874.3  
 Cantidad de años con datos completos: 42  
 Cantidad de años con interrupciones : 1  
 Fecha y hora de última actualización : 10/12/96 17:24:22  
 Fecha y hora del último cálculo estadístico: 12/12/96 12:18:43

Estación: QUITILIPÍ  
 Ente : FCC BELGRANO

Código: 39  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1919	88.0	0.0	83.0	0.0	0.0	104.0	192.0	0.0	38.0	171.0	233.0	42.0	951.0	48
1920	222.0	92.0	0.0	120.0	0.0	10.0	0.0	91.0	115.0	198.0	108.0	385.0	1341.0	48
1921	0.0	98.0	0.0	65.0	37.0	7.0	0.0	7.0	56.0	96.0	16.0	33.0	415.0	23
1922	139.0	75.0	50.0	128.0	112.0	40.0	85.0	43.0	40.0	53.0	94.0	108.0	967.0	69
1923	119.0	38.0	64.0	107.0	104.0	89.0	18.0	15.0	60.0	93.0	234.0	124.0	1065.0	61
1924	43.0	63.0	130.0	180.0	10.0	82.0	0.0	0.0	56.0	5.0	134.0	0.0	703.0	33
1925	53.0	155.0	0.0	0.0	46.0	0.0	9.0	3.0	42.0	186.0	148.0	120.0	762.0	35
1926	148.0	32.0	113.0	53.0	27.0	0.0	0.0	10.0	36.0	54.0	162.0	152.5	787.5	40
1927	208.0	32.0	145.0	72.0	0.0	25.0	3.0	3.0	25.0	39.0	170.0	142.0	864.0	51
1928	158.0	181.0	89.0	233.5	49.0	0.0	29.5	27.0	73.0	117.0	122.0	164.0	1243.0	66
1929	85.0	55.0	72.0	35.0	58.0	46.0	49.0	25.0	0.0	45.0	101.0	80.0	651.0	44
1930	137.0	96.0	142.0	15.0	166.0	15.0	2.0	54.0	16.0	74.0	142.0	239.0	1098.0	56
1931	260.0	51.0	180.0	81.0	77.0	26.0	0.0	8.0	6.0	154.0	70.0	27.0	940.0	61
1932	80.0	61.0	271.0	194.0	52.0	5.0	0.0	28.0	24.0	0.0	303.0	63.0	1081.0	65
1956	223.0	240.0	203.0	116.0	29.0	31.0	30.0	103.0	14.0	126.0	75.0	106.0	1296.0	71
1957	213.0	131.0	85.0	186.0	57.0	15.0	0.0	22.0	57.0	166.0	36.0	266.0	1234.0	73
1958	59.0	69.0	129.0	110.0	37.0	0.0	37.0	18.0	73.0	8.0	214.0	174.0	928.0	67
1959	242.0	217.0	149.0	136.0	113.0	8.0	46.0	15.0	129.0	228.0	139.0	132.0	1554.0	66
1960	107.0	66.0	172.0	81.0	2.0	122.0	32.0	50.0	28.0	204.0	159.0	128.0	1151.0	69
1961	100.0	252.0	226.0	158.0	48.0	12.0	11.0	0.0	30.0	83.0	310.0	134.0	1364.0	59
1962	122.0	65.0	179.0	130.0	72.0	0.0	51.0	17.0	14.0	88.0	56.0	67.0	861.0	46
1963	175.0	217.0	32.0	117.0	37.0	16.0	24.0	7.0	47.0	59.0	54.0	63.0	848.0	53
1964	11.0	86.0	176.0	154.0	82.0	10.0	25.0	5.0	79.0	48.0	49.0	174.0	899.0	55
1965	85.0	172.0	36.0	178.0	42.0	21.0	12.0	21.0	77.0	189.0	208.0	330.0	1371.0	64
1966	328.0	357.0	172.0	109.0	47.0	11.0	3.0	3.0	35.0	37.0	161.0	25.0	1288.0	54
1967	337.0	181.0	165.0	66.0	62.0	19.0	23.0	39.0	63.0	77.0	71.0	78.0	1181.0	70

Fecha de inicio de la serie: 11/01/19  
 Fecha de final. de la serie: 25/12/95  
 Frecuencia anual media: 52 Precipitación anual media: 1063.8  
 Cantidad de años con datos completos: 54  
 Cantidad de años con interrupciones : 0  
 Fecha y hora de última actualización : 28/10/96 07:44:18  
 Fecha y hora del último cálculo estadístico: 19/11/96 08:57:44

Estación: QUITILIPÍ  
Ente : FCCC BELGRANO

Código: 39  
Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1968	215.0	64.0	61.0	28.0	26.0	27.0	39.0	56.0	17.0	145.0	115.0	137.0	930.0	69
1969	133.0	146.0	97.0	47.0	53.0	12.0	33.0	2.0	24.0	211.0	31.0	34.0	823.0	51
1970	93.0	110.0	104.0	34.0	71.0	0.0	22.0	40.0	124.0	87.0	25.0	88.0	798.0	47
1971	112.0	77.0	174.0	88.0	26.0	4.0	32.0	11.0	6.0	81.0	58.0	24.0	693.0	43
1972	91.0	50.0	169.0	150.0	69.0	40.0	84.0	13.0	17.0	94.0	168.0	150.0	1095.0	52
1973	462.0	43.0	245.0	116.0	82.0	96.0	57.0	24.0	0.0	65.0	70.0	176.0	1436.0	59
1974	180.0	215.0	121.0	262.0	159.0	19.0	29.0	28.0	24.0	59.0	153.0	53.0	1302.0	54
1975	50.0	44.0	318.0	162.0	50.0	82.0	5.0	45.0	32.0	31.0	299.0	55.0	1173.0	53
1976	172.0	96.0	141.0	22.0	0.0	0.0	9.0	0.0	5.0	72.0	94.0	115.0	726.0	36
1977	171.0	64.0	109.0	70.0	27.0	9.0	31.0	33.0	14.0	71.0	139.0	98.0	836.0	46
1978	52.0	155.0	10.0	24.0	7.0	48.0	0.0	0.0	23.0	88.0	103.0	142.0	652.0	35
1979	62.0	211.0	110.0	61.0	0.0	5.0	50.0	54.0	57.0	112.0	103.0	244.0	1069.0	46
1980	64.0	30.0	138.0	139.0	85.0	29.0	0.0	3.0	29.0	166.0	305.0	59.0	1047.0	51
1981	386.0	213.0	199.0	65.0	89.0	30.0	12.0	43.0	38.0	40.0	135.0	113.0	1363.0	62
1982	98.0	180.0	135.0	89.0	58.0	52.0	11.0	60.5	192.0	40.0	182.0	155.0	1252.5	61
1983	214.0	139.0	80.0	692.0	229.0	2.0	20.0	0.0	3.0	34.0	71.0	80.0	1564.0	47
1984	207.0	111.0	344.0	173.0	78.0	82.0	2.0	20.0	53.0	0.0	282.0	94.0	1446.0	78
1985	98.0	148.0	121.0	353.0	36.0	0.0	5.0	34.0	96.0	8.0	73.0	131.0	1103.0	51
1986	10.0	71.0	294.0	142.0	99.0	80.0	31.0	0.0	161.0	346.0	175.0	86.0	1495.0	54
1987	172.0	53.0	36.0	163.0	112.0	21.0	62.0	27.0	13.0	44.0	138.0	88.0	929.0	36
1988	128.0	16.0	173.0	163.0	6.0	2.0	0.0	0.0	9.0	42.0	56.0	205.0	800.0	25
1989	50.0	74.0	229.0	147.0	1.0	21.0	31.0	105.0	47.0	8.0	84.0	209.0	1006.0	41
1990	75.0	82.0	61.0	280.0	55.0	57.0	59.0	2.0	85.0	322.0	61.0	119.0	1258.0	45
1991	149.0	362.0	179.0	157.0	250.0	17.0	3.0	0.0	75.0	111.0	184.0	320.0	1807.0	62
1992	122.0	169.0	226.0	270.0	14.0	67.0	5.0	82.0	37.0	198.0	134.0	272.0	1596.0	47
1993	118.0	10.0	76.0	43.0	5.0	0.0	4.0	2.0	21.0	54.0	119.0	130.0	582.0	35

Fecha de inicio de la serie: 11/01/19

Fecha de final. de la serie: 25/12/95

Frecuencia anual media: 52 Precipitación anual media: 1063.8

Cantidad de años con datos completos: 54

Cantidad de años con interrupciones: 0

Fecha y hora de última actualización : 28/10/96 07:44:18

Fecha y hora del último cálculo estadístico: 19/11/96 08:57:44

Estación: QUITILIPÍ	Código: 39
Ente : FCC BELGRANO	Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1994	62.0	106.0	162.0	110.0	104.0	46.0	0.0	17.0	40.0	70.0	376.0	90.0	1183.0	47
1995	149.0	68.0	106.0	39.0	46.0	1.0	7.0	7.0	5.0	51.0	27.0	131.0	637.0	40

Fecha de inicio de la serie: 11/01/19  
 Fecha de final. de la serie: 25/12/95  
 Frecuencia anual media: 52 Precipitación anual media: 1063.8  
 Cantidad de años con datos completos: 54  
 Cantidad de años con interrupciones : 0  
 Fecha y hora de última actualización : 28/10/96 07:44:18  
 Fecha y hora del último cálculo estadístico: 19/11/96 08:57:44

Estación: SAENZ PEÑA  
 Ente : I.N.T.A.

Código: 28  
 Código: 11

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1930	222.5	83.9	125.4	86.6	94.8	19.2	5.0	63.1	4.5	76.9	161.6	247.0	1190.5	67
1931	326.2	120.1	207.8	62.5	82.0	29.5	2.5	18.5	9.0	152.5	30.2	50.7	1091.5	51
1932	98.7	66.5	154.8	285.6	22.5	3.2	80.0	36.5	14.5	91.5	269.0	111.0	1233.8	61
1933	87.0	124.0	124.5	71.0	171.5	0.0	0.0	0.0	40.0	150.5	82.5	140.5	991.5	50
1934	43.0	94.5	154.5	220.0	19.0	45.5	33.3	17.0	30.5	70.0	105.5	65.5	898.3	49
1935	32.5	157.5	71.0	26.0	24.0	126.0	0.0	27.0	2.0	13.5	240.5	151.5	871.5	34
1936	52.0	72.0	69.0	113.5	46.0	16.5	8.5	0.0	19.5	0.0	0.0	0.0	397.0	25
1937	28.8	63.0	72.5	84.3	13.6	6.8	1.7	0.0	28.3	15.4	18.6	60.4	393.4	53
1938	165.6	112.4	102.1	113.8	19.7	7.0	0.5	4.2	40.3	32.8	70.9	35.7	705.0	81
1939	199.0	119.1	205.0	71.4	45.8	19.5	8.4	53.0	168.3	281.4	138.4	131.7	1441.0	87
1940	344.1	255.9	56.1	173.4	112.1	27.7	67.0	113.0	71.0	56.8	61.7	115.9	1454.7	86
1941	90.9	197.4	133.8	39.5	69.5	44.3	59.1	76.2	14.1	39.2	167.3	53.6	984.9	91
1942	212.0	293.2	222.0	17.8	21.7	100.3	3.0	25.0	6.4	26.7	99.9	58.2	1086.2	77
1943	44.4	103.3	114.9	62.2	8.7	25.0	15.6	3.4	25.7	96.9	113.6	62.3	676.0	59
1944	52.3	36.4	143.6	34.6	43.4	14.5	0.0	6.0	94.9	155.3	50.9	31.1	663.0	51
1945	104.9	148.6	183.0	98.0	0.0	0.0	30.5	0.0	63.1	72.5	68.5	28.2	797.3	40
1946	144.4	21.5	145.6	52.2	34.7	20.0	5.0	1.5	16.3	11.3	172.0	245.7	870.2	60
1947	121.1	122.1	71.6	57.2	91.5	27.1	24.4	25.2	50.2	28.6	61.3	14.7	695.0	47
1948	174.9	73.8	174.9	129.4	8.7	55.3	1.6	0.0	29.4	54.5	155.9	126.1	984.5	57
1949	102.2	118.0	43.5	47.0	11.0	33.0	61.8	0.0	18.9	102.8	154.9	103.1	796.2	63
1950	73.8	331.3	95.6	98.0	17.9	62.8	21.4	3.2	35.8	118.1	27.7	61.1	946.7	59
1951	160.5	81.3	140.4	99.1	37.2	13.6	7.4	40.4	19.5	128.5	93.5	230.7	1052.1	52
1952	46.5	148.1	70.7	99.2	106.8	29.8	18.2	24.5	18.4	100.8	172.4	35.9	871.3	52
1953	115.7	36.5	228.0	91.3	78.4	74.6	0.0	0.0	12.7	257.7	73.0	124.2	1092.1	46
1954	244.0	131.8	136.3	62.9	12.5	21.8	21.4	30.7	14.8	122.3	19.3	95.2	913.0	94
1955	27.8	87.0	279.5	89.1	59.9	56.6	23.2	3.0	13.4	99.3	98.3	154.2	991.3	83

Fecha de inicio de la serie: 03/01/30  
 Fecha de final. de la serie: 16/12/94  
 Frecuencia anual media: 68 Precipitación anual media: 1020.1  
 Cantidad de años con datos completos: 65  
 Cantidad de años con interrupciones : 0  
 Fecha y hora de última actualización : 16/05/95 12:59:52  
 Fecha y hora del último cálculo estadístico: 19/11/96 08:53:46

Estación: SAENZ PEÑA  
 Ente : I.N.T.A.

Código: 28  
 Código: 11

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1956	305.5	175.0	257.2	108.5	56.7	23.9	25.2	83.0	9.5	139.2	82.1	98.1	1363.9	94
1957	213.7	10.1	107.7	180.2	49.9	20.5	1.5	15.6	79.1	91.7	110.8	347.7	1228.5	71
1958	94.0	139.5	112.2	108.9	13.8	3.5	16.4	24.3	60.0	19.0	229.3	197.4	1018.3	62
1959	244.2	275.6	84.8	84.6	78.2	11.5	47.8	6.0	112.6	154.7	61.9	226.1	1388.0	80
1960	94.8	54.3	121.3	57.5	1.0	98.1	23.7	31.5	26.7	238.2	220.4	177.7	1145.2	72
1961	131.2	201.0	174.7	169.6	74.4	46.2	16.4	13.3	4.7	65.0	233.9	180.7	1311.1	70
1962	137.5	74.4	121.7	108.5	49.5	5.3	25.6	8.8	9.5	79.8	42.0	112.0	774.6	52
1963	137.0	175.0	27.0	147.3	28.0	8.0	7.0	1.0	62.8	45.5	73.1	82.5	794.2	48
1964	16.0	87.3	166.9	184.0	119.3	0.8	6.0	25.5	63.2	44.0	56.0	137.1	906.1	55
1965	87.3	184.0	35.0	211.5	27.8	11.0	30.5	13.5	60.8	151.0	233.8	245.8	1292.0	66
1966	200.2	330.8	146.5	99.2	27.3	14.2	0.0	2.5	46.9	22.8	195.5	82.4	1168.3	54
1967	256.9	199.0	138.4	61.9	61.6	17.5	6.8	30.0	37.9	17.0	109.0	72.2	1008.2	64
1968	225.9	94.7	42.5	42.5	39.9	29.7	31.0	69.4	33.9	59.1	64.5	113.9	847.0	81
1969	117.4	143.2	63.0	65.7	51.4	6.2	32.5	0.0	40.9	184.1	47.0	59.1	810.5	62
1970	88.9	72.5	80.6	21.3	79.8	1.7	35.7	43.0	115.0	68.8	24.0	114.7	746.0	61
1971	86.2	65.8	154.2	115.1	13.0	9.8	10.3	23.2	6.3	83.7	72.3	16.2	656.1	62
1972	206.5	88.5	206.1	148.6	93.6	45.5	46.1	1.6	18.9	90.2	107.0	117.6	1170.2	81
1973	428.2	129.5	215.2	53.4	48.1	89.2	69.3	29.0	11.1	55.3	65.7	165.2	1359.2	75
1974	156.6	199.1	70.1	92.2	182.2	6.7	18.9	30.8	20.5	39.1	115.0	108.3	1039.5	71
1975	69.6	20.3	293.1	95.5	38.8	54.4	1.5	44.8	27.8	23.5	211.6	48.7	929.6	66
1976	166.2	85.8	76.3	24.5	14.7	5.9	71.1	2.6	26.7	80.7	120.5	92.7	767.7	59
1977	94.4	69.2	86.0	77.4	94.2	4.7	27.1	39.3	22.1	60.1	133.3	105.9	813.7	67
1978	126.2	196.3	29.6	16.6	4.2	14.8	0.0	0.0	34.9	70.0	112.2	121.8	726.6	59
1979	122.3	236.3	113.4	97.4	8.6	7.7	43.3	30.8	43.4	126.5	103.2	323.9	1256.8	69
1980	79.6	76.1	101.7	166.2	93.3	32.6	1.7	52.7	20.3	111.0	222.6	69.6	1027.4	73
1981	299.6	254.1	127.6	82.7	61.7	24.1	3.0	40.3	25.0	53.8	128.3	90.9	1191.1	76

Fecha de inicio de la serie: 03/01/30  
 Fecha de final. de la serie: 16/12/94  
 Frecuencia anual media: 68 Precipitación anual media: 1020.1  
 Cantidad de años con datos completos: 65  
 Cantidad de años con interrupciones : 0  
 Fecha y hora de última actualización : 16/05/95 12:59:52  
 Fecha y hora del último cálculo estadístico: 19/11/96 08:53:46

Estación: SAENZ PEÑA  
Ente : I.N.T.A.

Código: 28  
Código: 11

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1982	91.7	153.7	189.8	127.1	37.7	45.8	12.5	59.3	118.8	55.5	139.3	191.4	1222.6	77
1983	184.6	83.4	158.6	323.4	130.8	1.5	36.3	0.3	0.0	53.4	94.1	52.7	1119.1	77
1984	201.3	178.9	141.7	103.3	37.0	40.9	1.3	16.3	58.3	118.6	156.8	73.4	1127.8	102
1985	107.3	99.9	103.7	329.2	52.6	7.0	19.9	30.1	76.1	51.4	78.4	125.3	1080.9	89
1986	65.5	116.4	326.0	395.9	111.2	82.8	11.5	12.3	127.1	222.2	134.8	90.2	1695.9	85
1987	144.4	45.3	46.8	189.1	47.2	6.4	94.1	20.9	8.8	68.4	145.3	104.3	921.0	83
1988	269.7	53.1	206.4	106.2	4.6	8.3	8.8	5.5	24.3	41.6	65.8	155.7	950.0	58
1989	68.1	35.5	260.8	220.1	6.1	8.4	16.3	52.7	32.2	49.5	103.4	194.7	1047.8	85
1990	75.0	82.1	78.2	256.8	109.9	32.3	58.0	16.5	49.3	272.6	84.5	195.0	1310.2	90
1991	118.9	96.7	178.9	187.8	212.3	25.5	9.3	0.0	64.1	77.1	80.7	153.4	1204.7	83
1992	153.1	112.7	110.0	471.2	11.6	51.1	6.0	50.6	11.3	168.5	152.5	207.6	1506.2	83
1993	71.0	25.5	313.2	232.4	14.8	2.1	4.3	0.0	13.0	36.9	204.0	114.0	1031.2	79
1994	96.2	120.9	162.7	125.3	93.5	35.3	8.3	19.8	55.9	114.3	360.8	68.9	1261.9	76

Fecha de inicio de la serie: 03/01/30

Fecha de final. de la serie: 16/12/94

Frecuencia anual media: 68 Precipitación anual media: 1020.1

Cantidad de años con datos completos: 65

Cantidad de años con interrupciones: 0

Fecha y hora de última actualización : 16/05/95 12:59:52

Fecha y hora del último cálculo estadístico: 19/11/96 08:53:46

Estación: SAN BERNARDO  
 Ente : OTRO

Código: 32  
 Código: 16

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1959	18.0	200.0	95.0	72.0	0.0	0.0	24.0	8.0	85.0	56.0	30.0	158.0	746.0	27
1960	78.0	44.0	30.0	127.0	0.0	65.0	25.0	45.0	10.0	170.0	160.0	83.0	837.0	27
1961	21.0	217.0	220.0	195.0	35.0	20.0	2.0	22.0	13.0	102.0	110.0	148.0	1105.0	58
1962	158.0	68.0	85.0	88.0	12.0	7.0	28.0	30.0	0.0	69.0	47.0	157.0	749.0	42
1963	82.0	201.0	4.0	36.0	25.0	0.0	22.0	0.0	130.0	83.0	41.0	141.0	765.0	34
1964	28.0	115.0	218.0	320.0	33.0	17.0	10.0	30.0	101.0	35.0	81.0	60.0	1048.0	41
1965	35.0	100.0	110.0	110.0	8.0	0.0	15.0	39.0	69.0	188.0	128.0	223.0	1025.0	40
1966	212.0	259.0	156.0	48.0	100.0	0.0	16.0	0.0	65.0	48.0	135.0	14.0	1053.0	31
1967	262.0	195.0	118.0	40.0	85.0	19.0	0.0	20.0	45.0	39.0	81.0	43.0	947.0	33
1968	212.0	75.0	46.0	94.0	18.0	40.0	45.0	56.0	0.0	45.0	70.0	24.0	725.0	43
1969	176.0	243.0	24.0	87.0	45.0	0.0	33.0	0.0	97.0	170.0	30.0	49.0	954.0	37
1970	120.0	92.0	78.0	78.0	111.0	0.0	31.0	85.0	76.0	56.0	171.0	16.0	914.0	38
1971	50.0	54.0	278.0	83.0	171.0	0.0	46.0	24.0	15.0	79.0	48.0	61.0	909.0	35
1972	62.0	25.0	379.0	81.0	24.0	37.0	53.0	7.0	12.0	87.0	172.0	206.0	1145.0	58
1973	253.0	34.0	266.0	149.0	6.0	87.0	65.0	19.0	8.0	82.0	102.0	116.0	1187.0	70
1974	143.0	38.0	31.0	213.0	122.0	4.0	0.0	5.0	19.0	39.0	12.0	14.0	640.0	27
1975	30.0	66.0	206.0	I/Mes	S/Dato	S/Dat								
1976	165.0	68.0	263.0	8.0	6.0	2.0	7.0	6.0	24.0	83.0	78.0	92.0	802.0	55
1977	174.0	82.0	299.0	79.0	57.0	6.0	12.0	34.0	46.0	75.0	145.0	70.0	1079.0	56
1978	80.0	167.0	22.0	34.0	3.0	12.0	0.0	0.0	41.0	96.0	158.0	90.0	703.0	38
1979	98.0	176.0	84.0	71.0	0.0	0.0	57.0	24.0	48.0	74.0	65.0	238.0	935.0	49
1980	43.0	164.0	101.0	189.0	99.0	28.0	0.0	0.0	41.0	70.0	174.0	91.0	1000.0	39
1981	174.0	290.0	154.0	83.0	102.0	15.0	11.0	24.0	8.0	47.0	101.0	111.0	1120.0	56
1982	151.0	85.0	102.0	107.0	5.0	70.0	16.5	1.0	73.5	56.0	105.0	198.0	970.0	51
1983	159.0	128.0	90.0	393.0	84.0	1.0	48.0	9.0	16.0	18.0	101.0	121.0	1168.0	55
1984	233.0	253.0	539.0	172.0	41.0	28.0	5.0	12.0	50.0	103.0	136.0	134.0	1706.0	71

Fecha de inicio de la serie: 22/01/59  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 44 Precipitación anual media: 959.6  
 Cantidad de años con datos completos: 36  
 Cantidad de años con interrupciones : 2  
 Fecha y hora de última actualización : 10/12/96 17:40:07  
 Fecha y hora del último cálculo estadístico: 12/12/96 12:20:31

Estación: SAN BERNARDO  
 Ente : OTRO

Código: 32  
 Código: 16

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1985	150.0	235.0	69.0	172.0	35.0	4.0	13.0	67.0	77.0	72.0	28.0	118.0	1040.0	53
1986	32.0	88.0	493.0	239.0	90.0	46.0	52.0	15.0	168.0	129.0	168.0	55.0	1575.0	63
1987	145.0	37.0	68.0	78.0	83.0	0.0	20.0	60.0	0.0	8.0	147.0	50.0	696.0	28
1988	112.0	36.0	117.0	80.0	7.0	11.0	18.0	0.0	0.0	0.0	0.0	0.0	381.0	28
1989	39.0	47.0	223.0	434.0	0.0	14.0	46.0	14.0	28.0	52.0	36.0	199.0	1132.0	43
1990	103.0	90.0	91.0	184.0	63.0	18.0	11.0	0.0	30.0	225.0	54.0	130.0	999.0	55
1991	153.0	51.0	176.0	253.0	288.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	921.0	32
1992	107.0	142.0	101.0	147.0	28.0	63.0	40.0	68.0	10.0	197.0	171.0	178.0	1252.0	46
1993	187.0	43.0	100.0	162.0	19.0	0.0	5.0	0.0	2.0	27.0	159.0	58.0	762.0	45
1994	10.0	125.0	77.0	41.0	45.0	34.0	3.0	7.0	31.0	112.0	177.0	114.0	776.0	46
1995	117.0	117.0	157.0	92.0	43.0	13.0	3.0	8.0	69.0	36.0	42.0	83.0	780.0	42
1996	209.0	311.0	186.0	67.0	16.0	0.0	0.0	0.0	50.0	97.0			S/Dato	S/Dat

Fecha de inicio de la serie: 22/01/59  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 44 Precipitación anual media: 959.6  
 Cantidad de años con datos completos: 36  
 Cantidad de años con interrupciones: 2  
 Fecha y hora de última actualización: 10/12/96 17:40:07  
 Fecha y hora del último cálculo estadístico: 12/12/96 12:20:31

Estación: SANTA SILVINA  
 Ente : OTRO

Código: 18  
 Código: 16

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1954	77.0	65.0	92.0	40.0	3.0	10.0	58.0	0.0	0.0	187.0	0.0	65.0	597.0	20
1955	85.0	226.0	302.0	63.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	74.0	755.0	23
1956	150.1	209.7	248.9	69.3	1.2	10.0	5.2	14.5	11.2	208.4	146.9	88.8	1164.2	55
1957	75.9	66.4	18.8	57.6	65.3	11.5	0.0	11.0	72.7	162.5	60.3	171.1	773.1	55
1958	0.0	118.3	164.6	116.9	20.0	0.0	7.9	10.0	30.4	4.6	185.9	322.5	981.1	50
1959	91.4	145.6	85.5	76.7	63.0	9.9	43.3	27.0	20.0	104.5	11.5	130.5	808.9	59
1960	77.1	41.5	96.7	187.5	19.4	25.0	37.5	55.2	0.0	159.0	123.5	156.8	979.2	50
1961	53.0	132.4	194.8	82.5	39.0	4.5	0.0	0.0	16.0	123.5	115.5	156.0	917.2	46
1962	127.5	44.5	150.0	42.5	14.0	0.0	45.0	7.5	1.0	73.0	74.0	48.5	627.5	39
1963	64.5	176.5	85.0	98.0	19.5	9.0	10.5	4.5	46.5	15.0	32.0	97.5	658.5	58
1964	56.5	67.5	150.5	180.0	0.0	24.5	6.0	0.0	84.0	48.5	60.5	152.0	830.0	44
1965	83.7	157.0	76.0	120.0	3.5	0.0	11.0	0.0	29.0	141.0	162.0	214.0	997.2	49
1966	223.0	157.5	166.5	65.0	204.0	11.5	12.0	0.0	146.0	21.5	100.0	59.0	1166.0	46
1967	182.5	162.0	184.5	60.0	131.0	25.0	34.5	60.0	45.5	45.5	41.0	10.0	981.5	49
1968	120.5	81.0	84.5	32.0	23.0	50.5	13.0	72.0	15.0	76.5	54.5	54.5	677.0	58
1969	160.0	118.0	61.5	46.5	40.0	12.0	28.0	0.0	16.0	53.5	68.5	49.0	653.0	39
1970	171.0	53.0	118.5	65.0	92.0	15.0	25.0	28.0	43.5	62.0	36.5	187.5	897.0	51
1971	163.0	102.0	211.0	110.0	19.5	0.0	13.0	36.5	12.0	65.0	62.0	18.0	812.0	44
1972	91.5	28.5	289.0	119.0	19.0	51.0	37.0	15.0	22.5	82.0	117.5	92.5	964.5	64
1973	245.5	151.0	385.7	238.0	7.0	116.0	3.0	18.5	44.0	57.5	66.5	186.0	1518.7	67
1974	56.0	513.0	180.0	147.0	137.0	12.0	12.0	0.0	54.0	77.0	6.0	102.0	1296.0	38
1975	47.0	157.0	173.0	159.0	19.0	0.0	0.0	45.0	29.0	26.0	152.0	21.0	828.0	36
1976	336.0	61.0	243.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	111.0	83.0	856.0	24
1977	253.0	127.0	300.0	99.0	42.0	4.0	29.0	32.0	7.0	102.0	100.0	104.0	1199.0	45
1978	186.0	130.0	21.0	23.0	16.0	38.0	0.0	0.0	102.0	61.0	175.0	29.0	781.0	34
1979	32.0	167.0	62.0	89.0	0.0	40.0	0.0	13.0	106.0	80.0	29.0	281.0	899.0	32

Fecha de inicio de la serie: 02/01/54  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 45 Precipitación anual media: 946.5  
 Cantidad de años con datos completos: 42  
 Cantidad de años con interrupciones : 1  
 Fecha y hora de última actualización : 12/12/96 11:54:11  
 Fecha y hora del último cálculo estadístico: 12/12/96 12:19:52

Estación: SANTA SILVINA  
 Ente : OTRO

Código: 18  
 Código: 16

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1980	63.0	59.0	161.0	235.0	82.0	7.0	0.0	0.0	35.0	60.0	251.0	182.0	1135.0	38
1981	246.0	507.0	192.0	112.0	104.0	15.0	7.0	19.0	18.0	64.0	161.0	71.0	1516.0	52
1982	98.0	74.0	83.0	104.0	0.0	74.0	0.0	18.0	86.0	30.0	205.0	224.0	996.0	49
1983	116.0	86.0	144.0	43.0	42.0	0.0	91.0	0.0	12.0	210.0	86.0	68.0	898.0	40
1984	132.0	163.0	278.0	120.0	27.0	22.0	25.0	48.0	67.0	100.0	98.0	82.0	1162.0	55
1985	116.0	330.0	126.0	199.0	29.0	59.0	30.0	38.0	39.0	139.0	30.0	102.0	1237.0	50
1986	47.0	79.0	261.0	348.0	58.0	57.0	44.0	3.0	76.0	124.0	119.0	88.0	1304.0	54
1987	237.0	19.0	49.0	62.0	80.0	0.0	26.0	3.0	41.0	23.0	326.0	138.0	1004.0	35
1988	182.0	5.0	66.0	31.0	0.0	3.0	0.0	12.0	27.0	17.0	58.0	107.0	508.0	26
1989	39.0	15.0	266.0	210.0	0.0	28.0	13.0	20.0	41.0	93.0	99.0	189.0	1013.0	45
1990	209.0	132.0	72.0	193.0	20.0	0.0	0.0	0.0	10.0	148.0	155.0	103.0	1042.0	44
1991	160.0	29.0	131.0	165.0	159.0	21.0	11.0	19.0	60.0	114.0	95.0	246.0	1210.0	54
1992	67.0	91.0	69.0	133.0	164.0	5.0	42.0	43.0	31.0	58.0	145.0	0.0	848.0	35
1993	166.0	73.0	138.0	101.0	19.0	0.0	2.0	0.0	5.0	66.0	36.0	74.0	680.0	41
1994	0.0	190.0	85.0	64.0	37.0	14.0	0.0	9.0	33.0	79.0	155.0	130.0	796.0	47
1995	154.0	173.0	64.0	72.0	48.0	1.0	0.0	2.0	3.0	23.0	95.0	150.0	785.0	36
1996	73.0	243.0	71.0	153.0	19.0	0.0	0.0	15.0	50.0	130.0			S/Dato	S/Dat

Fecha de inicio de la serie: 02/01/54

Fecha de final. de la serie: 30/10/96

Frecuencia anual media: 45 Precipitación anual media: 946.5

Cantidad de años con datos completos: 42

Cantidad de años con interrupciones: 1

Fecha y hora de última actualización: 12/12/96 11:54:11

Fecha y hora del último cálculo estadístico: 12/12/96 12:19:52

Estación: CABEZA DE TIGRE (TOOD)  
Ente : OTRO

Código: 84  
Código: 16

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1978	129.0	174.0	63.0	70.0	6.0	14.0	0.0	0.0	69.0	49.0	135.0	132.0	841.0	42
1979	87.0	203.0	38.0	58.0	0.0	0.0	54.0	2.0	109.0	71.0	71.0	181.0	874.0	41
1981	155.0	236.0	249.0	106.0	104.0	0.0	12.0	23.0	17.0	50.0	125.0	39.0	1116.0	52
1982	78.0	41.0	66.0	97.0	18.0	91.0	0.0	19.0	78.0	17.0	170.0	189.0	864.0	40
1983	198.0	86.0	82.0	35.0	25.0	0.0	60.0	0.0	17.0	99.0	94.0	56.0	752.0	34
1984	141.0	233.0	170.0	91.0	11.0	0.0	17.0	0.0	95.0	99.0	119.0	78.0	1054.0	51
1985	110.0	205.0	135.0	167.0	13.0	25.0	47.0	35.0	27.0	137.0	24.0	100.0	1025.0	48
1986	23.0	49.0	147.0	209.0	67.0	61.0	39.0	21.0	86.0	71.0	81.0	68.0	922.0	48
1987	262.0	58.0	60.0	42.0	87.0	0.0	39.0	6.0	68.0	33.0	314.0	112.0	1081.0	39
1988	114.0	29.0	85.0	21.0	0.0	0.0	6.0	0.0	28.0	17.0	83.0	83.0	466.0	24
1989	39.0	27.0	336.0	166.0	5.0	23.0	17.0	0.0	111.0	122.0	28.0	177.0	1051.0	45
1990	172.0	113.0	77.0	194.0	31.0	14.0	0.0	0.0	12.0	158.0	132.0	119.0	1022.0	54

Fecha de inicio de la serie: 05/01/78

Fecha de final. de la serie: 28/12/90

Frecuencia anual media: 43 Precipitación anual media: 922.3

Cantidad de años con datos completos: 12

Cantidad de años con interrupciones : 0

Fecha y hora de última actualización : 30/05/96 09:43:54

Fecha y hora del último cálculo estadístico: 19/11/96 09:06:09

Estación: URIEN ENRIQUE  
 Ente : FFCC BELGRANO

Código: 69  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1914		204.0	181.0	0.0	318.0	8.0	0.0	0.0	0.0	124.0	97.0	191.0	S/Dato	S/Dat
1915	0.0	0.0	44.0	140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	197.0	11
1916	39.0	0.0	194.0	38.0	286.0	5.0	8.0	26.0	23.0	11.0	16.0	0.0	646.0	31
1917	90.0	0.0	18.0	0.0	6.0	0.0	6.0	33.0	0.0	0.0	92.0	0.0	245.0	12
1918	103.0	161.0	302.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	127.0	0.0	726.0	23
1919	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	3
1920	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	318.0	318.0	3
1921	0.0	0.0	0.0	153.0	0.0	12.0	0.0	23.0	46.0	73.0	44.0	70.0	421.0	15
1922	114.0	35.0	70.0	143.0	225.0	79.0	51.0	33.0	94.0	67.0	111.0	19.0	1041.0	49
1923	127.0	21.0	17.0	87.5	58.0	25.0	8.0	14.0	43.0	94.0	135.0	265.0	894.5	51
1924	37.0	44.0	80.0	69.0	7.0	32.0	12.0	10.0	70.0	8.0	153.0	58.0	580.0	43
1925	100.0	123.0	5.0	0.0	24.0	0.0	3.0	12.0	8.0	121.0	214.0	111.0	721.0	36
1926	27.0	54.0	79.0	63.0	21.0	0.0	5.0	38.0	9.0	33.0	257.0	96.0	682.0	39
1927	199.0	165.0	159.0	98.0	0.0	12.0	1.0	0.0	24.0	49.0	198.0	111.0	1016.0	57
1928	130.0	193.0	152.0	206.0	52.5	0.0	49.0	0.0	70.0	110.5	139.0	102.0	1204.0	55
1929	123.0	32.0	74.0	44.0	9.0	37.0	58.0	12.0	111.0	0.0	99.0	104.0	703.0	33
1930	171.0	75.0	130.0	85.0	68.0	6.0	0.0	77.0	20.5	7.0	109.0	176.0	924.5	33
1931	327.0	75.0	103.0	100.0	60.0	19.0	5.0	33.0	0.0	132.0	79.0	163.5	1096.5	48
1932	119.0	115.0	263.0	146.0	4.0	5.0	82.0	23.0	20.0	66.0	239.0	0.0	1082.0	39
1956	212.0	215.0	195.0	96.0	13.0	5.0	7.0	67.0	15.0	229.0	115.0	129.0	1298.0	70
1957	123.0	39.0	58.0	158.0	109.0	9.0	0.0	17.0	66.0	179.0	99.0	293.0	1150.0	61
1958	105.0	189.0	267.0	158.0	35.0	25.3	11.0	26.2	63.0	18.0	168.0	313.0	1378.5	68
1959	170.0	273.0	91.0	135.0	97.0	24.0	69.0	11.0	66.0	186.0	42.0	160.0	1324.0	78
1960	132.0	46.0	161.0	212.0	5.0	68.0	69.0	70.0	12.0	174.0	111.0	138.0	1198.0	65
1961	78.0	170.0	380.0	184.0	29.0	8.0	12.0	15.0	2.0	58.0	0.0	73.0	1009.0	44
1962	197.0	64.0	129.0	106.0	23.0	0.0	41.0	8.0	0.0	81.0	64.0	59.0	772.0	38

Fecha de inicio de la serie: 04/02/14  
 Fecha de final. de la serie: 25/03/77  
 Frecuencia anual media: 42 Precipitación anual media: 872.6  
 Cantidad de años con datos completos: 39  
 Cantidad de años con interrupciones: 3  
 Fecha y hora de última actualización : 05/08/96 09:52:18  
 Fecha y hora del último cálculo estadístico: 19/11/96 09:03:53

Estación: URIEN ENRIQUE  
 Ente : FCC BELGRANO

Código: 69  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1963	68.0	175.0	31.0	114.0	49.0	6.0	30.0	0.0	95.0	46.0	82.0	112.0	808.0	55
1964	12.0	106.0	138.0	218.0	22.0	9.0	25.0	1.0	93.0	59.0	39.0	119.0	841.0	45
1965	20.0	222.0	82.0	101.0	6.0	10.0	15.0	11.0	52.0	143.0	204.0	210.0	1076.0	46
1966	265.0	211.0	262.0	101.3	107.0	0.0	30.0	5.0	53.0	51.0	130.0	62.0	1277.3	50
1967	234.0	0.0	145.0	40.0	111.0	17.0	21.0	16.0	48.0	55.0	60.0	30.0	777.0	49
1968	262.0	33.0	41.0	76.0	24.0	42.0	37.0	67.0	18.0	87.0	49.0	139.0	875.0	55
1969	131.0	145.0	30.0	89.0	74.0	13.0	40.0	0.0	38.0	101.0	131.4	40.0	832.4	46
1970	88.0	69.0	227.0	48.0	161.0	6.0	39.0	34.0	87.0	65.0	30.0	163.0	1017.0	48
1971	88.0	94.0	243.0	120.0	37.0	6.0	21.0	13.0	10.0	95.0	27.0	40.0	794.0	38
1972	63.0	31.0	320.0	111.0	39.0	41.0	40.0	5.0	22.0	98.0	197.0	131.0	1098.0	50
1973	441.0	62.0	377.0	234.0	12.0	102.0	43.5	33.0	15.0	49.0	95.0	94.0	1557.5	52
1974	79.0	202.0	19.0	158.0	53.0	10.0	14.0	0.0	13.0	45.0	5.0	25.0	623.0	32
1975	4.0	128.0	135.0	48.0	35.0	55.0	0.0	47.0	7.0	51.0	125.0	31.0	666.0	31
1976	212.0	32.0	175.0	27.0	I/Mes	I/Mes	I/Mes	I/Mes	10.0	40.0	102.0	57.0	S/Dato	S/Dat
1977	129.0	50.0	177.0										S/Dato	S/Dat

Fecha de inicio de la serie: 04/02/14  
 Fecha de final. de la serie: 25/03/77  
 Frecuencia anual media: 42 Precipitación anual media: 872.6  
 Cantidad de años con datos completos: 39  
 Cantidad de años con interrupciones : 3  
 Fecha y hora de última actualización : 05/08/96 09:52:18  
 Fecha y hora del último cálculo estadístico: 19/11/96 09:03:53

Estación: VILLA ANGELA  
 Ente : S.M.N.

Código: 41  
 Código: 8

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1947	32.0	100.0	85.0	57.0	33.0	15.0	42.0	117.9	79.0	40.2	108.5	39.1	748.7	47
1948	186.5	50.0	121.2	106.2	8.4	40.7	6.0	0.0	37.0	65.0	67.0	158.3	846.3	42
1949	118.5	151.9	120.9	42.9	32.7	44.6	39.5	0.0	18.0	169.0	13.0	129.0	880.0	52
1950	180.0	404.6	20.0	30.0	37.0	54.5	16.1	0.3	47.9	108.7	70.2	0.0	969.3	45
1951	223.9	172.5	251.7	9.9	25.6	0.0	0.0	28.0	44.0	152.0	108.0	166.0	1181.6	38
1953	99.0	71.0	176.0	249.0	134.0	84.0	0.0	0.0	14.0	195.0	60.0	287.0	1369.0	36
1954	252.5	84.0	75.0	103.0	0.0	29.0	48.0	5.0	0.0	216.0	7.0	71.0	890.5	32
1955	97.0	109.0	396.0	54.0	19.7	20.0	0.0	0.0	0.0	16.4	218.0	195.0	1125.1	31
1956	208.0	149.0	78.0	61.0	0.0	0.0	0.0	52.1	11.0	289.0	115.0	50.0	1013.1	26
1957	112.0	39.0	42.0	138.0	16.0	0.0	0.0	27.0	45.0	97.0	64.0	118.3	698.3	30
1958	71.0	105.0	107.0	90.0	20.0	0.0	0.0	27.0	45.8	18.0	237.0	289.0	1009.8	30
1959	49.0	174.0	60.0	63.0	56.0	5.0	50.0	16.0	56.0	172.0	28.0	145.5	874.5	38
1960	64.0	41.0	74.9	192.0	0.0	51.0	53.0	63.6	15.5	188.7	76.3	206.0	1026.0	45
1961	131.1	143.9	371.4	98.0	29.1	12.7	4.0	26.0	13.5	80.1	136.9	121.5	1168.2	62
1962	192.9	26.5	165.5	115.3	15.1	6.6	42.8	6.3	3.3	81.1	47.5	68.1	771.0	43
1963	64.2	149.5	88.0	151.4	81.0	0.0	23.1	0.0	124.2	34.8	91.6	89.5	897.3	47
1964	19.0	65.3	188.2	209.6	18.3	6.7	12.0	12.1	94.4	44.7	30.5	121.7	822.5	46
1965	26.8	223.2	154.3	149.6	7.0	7.6	0.0	9.6	65.4	119.1	172.1	262.7	1197.4	58
1966	262.9	228.9	203.5	133.2	119.3	2.7	24.5	1.0	54.4	66.3	153.1	97.2	1347.0	62
1967	186.5	191.8	214.3	31.6	110.4	40.4	40.1	47.0	47.3	71.7	55.5	45.0	1081.6	71
1968	144.5	47.3	32.8	34.4	22.0	45.3	44.7	59.6	23.0	75.6	83.7	66.2	679.1	61
1969	222.0	176.9	52.3	92.2	133.9	21.9	26.4	1.2	36.2	85.7	68.7	52.2	969.6	51
1970	92.0	45.5	162.0	43.1	150.9	10.2	50.6	25.3	62.2	67.0	47.0	152.3	908.1	63
1971	67.5	77.2	191.5	61.8	16.0	0.0	10.9	22.1	12.6	117.1	41.2	32.1	650.0	48
1972	86.2	42.3	248.7	133.4	56.6	53.6	39.6	10.8	23.2	85.4	160.3	105.8	1045.9	87
1973	285.0	76.2	339.1	234.6	16.9	116.9	57.8	14.3	19.4	74.0	85.5	142.5	1462.2	79

Fecha de inicio de la serie: 23/01/47  
 Fecha de final. de la serie: 30/10/96  
 Frecuencia anual media: 49 Precipitación anual media: 1045.4  
 Cantidad de años con datos completos: 48  
 Cantidad de años con interrupciones : 1  
 Fecha y hora de última actualización : 16/12/96 19:50:29  
 Fecha y hora del último cálculo estadístico: 16/12/96 19:51:09

Estación: VILLA ANGELA  
 Ente : S.M.N.

Código: 41  
 Código: 8

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1974	148.9	382.4	52.4	169.7	70.0	3.9	27.8	21.8	22.8	58.1	51.1	25.3	1034.2	69
1975	3.4	76.0	158.6	111.3	58.3	42.3	0.0	36.2	75.4	38.2	197.3	47.4	844.4	66
1976	232.2	77.0	180.9	13.4	6.9	2.6	6.4	4.5	5.0	52.9	75.1	101.4	758.3	50
1977	166.7	93.6	287.8	85.4	41.4	9.2	26.0	35.2	17.0	85.7	121.1	104.7	1073.8	77
1978	0.0	111.1	27.2	42.4	7.8	17.5	26.1	0.6	38.2	106.4	172.4	189.5	739.2	51
1979	85.9	104.1	75.3	64.6	0.0	0.6	47.1	60.2	71.8	30.5	64.9	342.9	947.9	55
1980	119.0	90.6	94.7	181.0	98.0	26.6	4.0	1.8	52.6	61.9	232.3	70.9	1033.4	63
1981	168.0	500.0	206.0	124.0	107.0	25.0	9.0	17.0	0.0	52.0	144.0	53.0	1405.0	50
1982	167.0	44.0	40.0	65.0	25.0	94.0	0.0	13.0	117.0	17.0	157.0	344.0	1083.0	38
1983	187.0	85.0	265.0	197.0	85.0	3.0	44.0	0.0	0.0	54.0	126.0	65.0	1111.0	40
1984	220.0	143.0	343.0	259.0	31.0	0.0	20.0	25.0	66.0	163.0	92.0	82.0	1444.0	46
1985	42.0	442.0	58.0	150.0	70.0	24.0	15.0	72.0	33.0	121.0	109.0	95.0	1231.0	53
1986	55.0	13.0	255.0	383.0	118.0	106.0	50.0	5.0	179.0	165.0	112.0	31.0	1472.0	49
1987	158.0	44.0	63.0	174.0	61.0	0.0	53.0	27.0	68.0	26.0	329.0	110.0	1113.0	39
1988	188.0	61.0	294.0	57.0	12.0	3.0	10.0	27.0	0.0	21.0	59.0	76.0	808.0	32
1989	31.0	18.0	181.0	315.0	18.0	28.0	34.0	21.0	22.0	126.0	40.0	258.0	1092.0	40
1990	217.0	101.0	122.0	182.0	35.0	10.0	18.0	18.0	21.0	195.0	114.0	135.0	1168.0	36
1991	143.0	63.0	216.0	516.0	376.0	14.0	16.0	27.0	179.0	80.0	42.0	328.0	2000.0	53
1992	50.0	59.0	78.0	74.0	101.0	94.0	28.0	173.0	25.0	108.0	131.0	32.0	953.0	35
1993	238.0	23.0	146.0	95.0	21.0	3.0	3.0	2.0	10.0	106.0	143.0	47.0	837.0	50
1994	13.0	107.0	206.0	67.0	101.0	40.0	1.0	2.0	41.0	113.0	471.0	146.0	1308.0	54
1995	159.0	182.0	290.0	126.0	50.0	6.0	0.0	10.0	27.0	34.0	58.0	150.0	1092.0	45
1996	200.0	394.0	147.0	159.0	9.0	0.0	0.0	5.0	78.0	137.0			S/Dato	S/Dat

Fecha de inicio de la serie: 23/01/47

Fecha de final. de la serie: 30/10/96

Frecuencia anual media: 49 Precipitación anual media: 1045.4

Cantidad de años con datos completos: 48

Cantidad de años con interrupciones : 1

Fecha y hora de última actualización : 16/12/96 19:50:29

Fecha y hora del último cálculo estadístico: 16/12/96 19:51:09

Estación: VENADOS GRANDES  
 Ente : FFCC BELGRANO

Código: 61  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1956	107.0	115.0	140.0	124.0	0.0	25.0	12.0	21.0	17.0	223.0	195.0	107.0	1086.0	48
1957	90.0	99.0	45.0	75.0	21.0	5.0	0.0	30.2	34.0	142.0	50.0	163.0	754.2	49
1958	0.0	97.0	86.0	102.0	10.0	0.0	10.0	8.0	33.0	15.0	175.0	332.0	868.0	41
1959	0.0	87.0	0.0	49.0	70.0	5.0	64.0	20.0	18.0	109.0	3.0	93.0	518.0	35
1960	75.0	79.0	76.0	86.0	0.0	16.0	29.0	15.0	10.0	188.0	104.0	126.0	804.0	48
1961	35.0	116.0	187.0	75.0	58.0	14.0	0.0	14.0	8.0	95.0	60.0	119.0	781.0	45
1962	93.0	10.0	115.0	39.0	5.0	0.0	26.0	0.0	0.0	41.0	62.0	68.0	459.0	30
1963	78.0	83.0	66.0	95.0	29.0	10.0	7.0	5.0	70.0	22.0	28.0	158.0	651.0	40
1964	8.0	85.0	148.0	158.0	0.0	5.0	5.0	0.0	57.0	24.0	33.0	193.0	716.0	38
1965	72.0	125.0	58.0	41.0	3.0	0.0	28.0	0.0	18.0	180.0	117.0	206.0	848.0	44
1966	195.0	52.0	71.0	52.0	149.0	2.0	8.0	0.0	128.0	12.0	109.0	78.0	856.0	41
1967	130.0	195.0	336.3	24.0	172.0	33.0	6.0	77.0	41.0	43.0	71.0	35.0	1163.3	45
1968	160.8	81.0	42.0	47.0	14.0	35.0	7.0	45.0	10.0	85.0	99.0	64.0	689.8	52
1969	164.0	115.0	43.0	31.0	26.0	13.0	45.0	0.0	28.0	50.0	79.0	71.0	665.0	39
1970	159.0	29.0	110.0	61.0	90.0	10.0	41.0	15.0	75.0	13.0	36.0	132.0	771.0	48
1971	126.0	94.0	112.0	96.0	3.0	0.0	24.0	15.0	19.0	63.0	80.0	48.0	680.0	42
1972	151.0	34.0	269.0	140.0	13.0	52.0	10.0	0.0	28.0	95.0	146.0	107.0	1045.0	47
1973	287.0	131.0	298.0	125.0	0.0	127.0	5.0	7.0	32.0	54.0	45.0	133.0	1244.0	51
1974	80.0	434.0	149.0	52.0	96.0	0.0	7.0	0.0	37.0	44.0	112.0	125.0	1136.0	54
1975	4.0	158.0	96.0	124.0	13.0	5.0	0.0	17.0	20.0	12.0	160.0	26.0	635.0	36
1976	272.0	87.0	286.0	0.0	0.0	0.0	0.0	0.0	4.0	32.0	64.0	80.0	825.0	34
1977	107.0	90.0	128.0	73.0	28.0	4.0	0.0	20.0	7.0	84.0	112.0	68.0	721.0	48
1978	124.0	102.0	34.0	77.0	14.0	20.0	0.0	5.0	120.0	47.0	192.0	43.0	778.0	36
1979	13.0	178.0	35.0	51.0	0.0	26.0	3.0	0.0	120.0	108.0	66.0	261.0	861.0	43
1980	86.0	54.0	194.0	111.0	34.0	8.0	0.0	0.0	50.0	47.0	171.0	120.0	875.0	33
1981	86.0	410.0	212.0	99.0	79.0	15.0	5.0	18.0	21.0	19.0	83.0	37.0	1084.0	41

Fecha de inicio de la serie: 05/01/56  
 Fecha de final. de la serie: 13/12/86  
 Frecuencia anual media: 44 Precipitación anual media: 840.8  
 Cantidad de años con datos completos: 31  
 Cantidad de años con interrupciones : 0  
 Fecha y hora de última actualización : 16/05/96 12:18:16  
 Fecha y hora del último cálculo estadístico: 19/11/96 09:02:17

Estación: VENADOS GRANDES  
Ente : FFCC BELGRANO

Código: 61  
Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1982	145.0	40.0	86.0	59.0	0.0	51.0	8.0	15.0	91.0	16.0	155.0	84.0	750.0	55
1983	102.0	85.0	156.0	59.0	20.0	0.0	25.0	0.0	0.0	95.0	94.0	32.0	668.0	41
1984	71.0	207.0	218.0	46.0	8.0	31.0	14.0	0.0	106.0	56.0	80.0	75.0	912.0	55
1985	153.0	277.0	104.0	231.0	17.0	36.0	47.0	21.0	33.0	150.0	45.0	63.0	1177.0	58
1986	57.0	42.0	253.0	315.6	48.0	37.0	30.4	13.0	99.0	54.0	64.0	32.0	1045.0	51

Fecha de inicio de la serie: 05/01/56

Fecha de final. de la serie: 13/12/86

Frecuencia anual media: 44 Precipitación anual media: 840.8

Cantidad de años con datos completos: 31

Cantidad de años con interrupciones: 0

Fecha y hora de última actualización : 16/05/96 12:18:16

Fecha y hora del último cálculo estadístico: 19/11/96 09:02:17

Estación: ZUBERBUHLER  
 Ente : FCC BELGRANO

Código: 70  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1956	105.0	167.0	142.0	41.0	0.0	18.0	10.0	19.0	9.0	174.0	214.0	95.0	994.0	49
1957	73.0	41.0	41.0	64.0	39.0	8.0	0.0	18.0	44.0	130.0	96.0	205.0	759.0	53
1958	0.0	107.0	100.0	83.0	19.0	0.0	7.0	8.0	28.0	15.0	162.0	222.0	751.0	45
1959	101.0	82.0	56.0	58.0	48.0	8.0	53.0	15.0	16.0	115.0	15.0	98.0	665.0	50
1960	116.0	48.0	79.0	136.0	0.0	15.0	57.0	11.0	21.0	182.0	151.0	122.0	938.0	56
1961	18.0	107.0	206.0	114.0	70.0	0.0	0.0	5.0	15.0	95.0	90.0	130.0	850.0	43
1962	107.0	11.0	143.0	37.0	0.0	0.0	30.0	10.0	0.0	43.0	38.0	57.0	476.0	23
1963	63.0	95.0	81.0	83.0	8.0	0.0	3.0	1.0	35.0	23.0	25.0	146.0	563.0	41
1964	4.0	40.0	147.0	164.0	0.0	5.0	0.0	0.0	62.0	22.0	30.0	200.0	674.0	36
1965	70.0	85.0	49.0	65.0	5.0	0.0	15.0	0.0	23.0	118.0	115.0	166.0	711.0	41
1966	163.0	74.0	55.0	46.0	142.0	0.0	8.0	0.0	96.0	10.0	129.0	44.0	767.0	36
1967	95.0	222.0	94.0	28.0	122.0	23.0	10.0	66.0	30.0	41.0	25.0	25.0	781.0	37
1968	137.0	101.0	59.0	34.0	15.0	41.0	9.0	57.0	18.0	61.0	52.0	58.0	642.0	50
1969	164.0	103.0	24.0	39.0	12.0	20.0	24.0	0.0	34.0	39.0	59.0	65.0	583.0	37
1970	132.0	59.0	87.0	67.0	69.0	12.0	28.0	27.0	62.0	0.0	35.0	123.0	701.0	43
1971	78.0	60.0	136.0	89.0	6.0	0.0	15.0	30.0	17.0	52.0	45.0	42.0	570.0	37
1972	118.0	49.0	233.0	143.0	8.0	40.0	13.0	4.0	34.0	80.0	101.0	104.0	927.0	46
1973	170.0	122.0	237.0	147.0	3.0	108.0	8.0	5.0	15.0	52.0	22.0	131.0	1020.0	48
1974	185.0	358.0	228.0	42.0	102.0	0.0	7.0	0.0	30.0	78.0	22.0	76.0	1128.0	44
1975	8.0	111.0	199.0	163.0	8.0	0.0	0.0	0.0	0.0	7.0	116.0	40.0	652.0	31
1976	121.0	60.0	106.0	66.0	25.0	0.0	13.0	37.0	7.0	89.0	158.0	46.0	728.0	33
1977	135.0	101.0	120.0	80.0	51.0	2.0	15.0	17.0	0.0	95.0	115.0	158.0	889.0	51
1978	100.0	122.0	30.0	83.0	10.0	23.0	0.0	0.0	130.0	41.0	155.0	35.0	729.0	39
1979	0.0	175.0	61.0	35.0	0.0	0.0	60.0	0.0	102.0	62.0	78.0	224.0	797.0	30
1980	40.0	76.0	171.0	139.0	42.0	5.0	0.0	3.0	18.0	23.0	240.0	100.0	857.0	35
1981	146.0	406.0	182.0	148.0	97.0	25.0	13.0	10.0	24.0	31.0	91.0	76.0	1249.0	51

Fecha de inicio de la serie: 05/01/56  
 Fecha de final. de la serie: 31/12/89  
 Frecuencia anual media: 41 Precipitación anual media: 806.2  
 Cantidad de años con datos completos: 32  
 Cantidad de años con interrupciones : 2  
 Fecha y hora de última actualización : 27/05/96 10:23:06  
 Fecha y hora del último cálculo estadístico: 19/11/96 09:04:09

Estación: ZUBERBUHLER  
 Ente : FCC BELGRANO

Código: 70  
 Código: 1

Año	1	2	3	4	5	6	7	8	9	10	11	12	Total	Frec.
1982	160.0	59.0	103.0	73.0	0.0	57.0	0.0	18.0	96.0	60.0	161.0	200.0	987.0	46
1983	103.0	83.0	35.0	112.0	25.0	0.0	20.0	3.0	10.0	65.0	95.0	48.0	599.0	31
1984	43.0	95.0	276.0	68.0	29.0	23.0	0.0	0.0	104.0	0.0	88.0	0.0	726.0	34
1985	145.0	297.0	110.0	285.0	5.0	29.0	20.0	28.0	7.0	155.0	74.0	80.0	1235.0	50
1986	57.0	47.0	175.0	382.0	27.0	50.0	38.0	5.0	195.0	82.0	74.0	37.0	1169.0	42
1987	176.0	0.0	50.0	50.0	0.0	0.0	37.0	11.0	20.0	17.0	310.0	10.0	681.0	22
1988	I/Mes	I/Mes	15.0	10.0	I/Mes	I/Mes	I/Día	I/Mes	I/Mes	I/Mes	I/Mes	I/Mes	S/Dato	S/Dat
1989	26.0	13.0	105.0	143.0	I/Mes	5.0	20.0	I/Mes	I/Mes	I/Mes	I/Mes	I/Mes	S/Dato	S/Dat

Fecha de inicio de la serie: 05/01/56

Fecha de final. de la serie: 31/12/89

Frecuencia anual media: 41 Precipitación anual media: 806.2

Cantidad de años con datos completos: 32

Cantidad de años con interrupciones: 2

Fecha y hora de última actualización : 27/05/96 10:23:06

Fecha y hora del último cálculo estadístico: 19/11/96 09:04:09

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO II				SECCION: Ruta Nacional N° 95			
				MES: JULIO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.00				
2			0.00				
3			0.00				
4			0.00				
5			0.00				
6			0.00				
7			0.00				
8			0.00				
9			0.00				
10			0.00				
11			0.00				
12			0.00				
13			0.00				
14			0.00				
15			0.00				
16			0.00				
17			0.00				
18			0.00				
19			0.00				
20			0.00				
21			0.00				
22			0.00				
23			0.00				
24			0.00				
25			0.00				
26			0.00				
27			0.00				
28			0.00				
29			0.00				
30			0.00				
31			0.00				

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO II				SECCION: Ruta Nacional N° 95 MES: AGOSTO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.00				
2			0.00				
3			0.00				
4			0.00				
5			0.00				
6			0.00				
7			0.00				
8			0.00				
9			0.00				
10			0.00				
11			0.00				
12			0.00				
13			0.00				
14			0.00				
15			0.00				
16			0.00				
17			0.00				
18			0.00				
19			0.00				
20			0.00				
21			0.00				
22			0.00				
23			0.00				
24			0.00				
25			0.00				
26			0.00		4.0		
27			0.00				
28			0.00				
29			0.00				
30			0.00				
31			0.00				

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO II				SECCION: Ruta Nacional N° 95 MES: SEPTIEMBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.00				
2			0.00				
3			0.00				
4			0.00				
5			0.00				
6			0.00				
7			0.00				
8			0.00		15		
9			0.06				
10			0.03				
11			0.00				
12			0.00				
13			0.00				
14			0.00				
15			0.00				
16			0.00				
17			0.00				
18			0.00				
19			0.00				
20			0.00				
21			0.00				
22			0.10		24		
23			0.07				
24			0.07		7		
25			0.12		12		
26			0.10		1		
27			0.09		3		
28			0.07				
29			0.04				
30			0.01				
31							

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO II				SECCION: Ruta Nacional N° 95 MES: OCTUBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [mm]	d [hr]	
1			0.08		12		
2			0.08		3		
3			0.05				
4			0.03				
5			0.16		23		
6			0.13				
7			0.10				
8			0.10		6		
9			0.07				
10			0.05				
11			0.03				
12			0.00				
13			0.15		25		
14			0.13				
15			0.11				
16			0.08				
17			0.04				
18			0.02				
19			0.15		21		
20			0.14				
21			0.12				
22			0.09				
23			0.05				
24			0.02				
25			0.00				
26			0.00				
27			0.00				
28			0.00				
29			0.00				
30			0.22		46		
31			0.18				

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO II				SECCION: Ruta Nacional N° 95 MES: NOVIEMBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [mm]	d [hr]	
1			0.15				
2			0.11				
3			0.07				
4			0.03				
5			0.02				
6			0.35		42		
7			0.38		3		
8			0.53		30		
9			0.68		30		
10			0.75				
11			0.65				
12			0.60				
13			0.55				
14			0.50				
15			0.41				
16			0.33				
17			0.24				
18			0.15				
19			0.11				
20			0.08				
21			0.05				
22			0.42		30		
23			0.35				
24			0.26				
25			0.18				
26			0.13				
27			0.09				
28			0.05				
29			0.03				
30			0.48		37		
31							

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO II				SECCION: Ruta Nacional N° 95 MES: DICIEMBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.48				
2			0.41				
3			0.30				
4			0.34		15		
5			0.33				
6			0.37		15		
7			0.34				
8			0.30				
9			1.35		132		
10			1.39		10		
11			1.27				
12			1.19				
13			1.11				
14			1.02				
15			0.94				
16			0.87				
17			0.80				
18			0.71				
19			0.67		4		
20			0.62				
21			0.62		3		
22			0.55				
23			0.48				
24			0.40				
25			0.86		45		
26			0.98		16		
27			0.95				
28			0.89				
29			0.82				
30			0.76				
31			0.71				

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO II				SECCION: Ruta Nacional N° 95			
				MES: ENERO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.65				
2			0.60				
3			0.56				
4			0.51				
5			0.47				
6			0.42				
7			0.36				
8			0.30				
9			0.22				
10			0.16				
11			0.12				
12			0.08				
13			0.05				
14			0.05		7		
15			0.04				
16			0.02				
17			0.00				
18			0.00				
19			0.00		5		
20			0.00				
21			0.00				
22			0.00				
23			0.00				
24			0.00				
25			0.00				
26			0.00				
27			0.00		5		
28			0.00				
29			0.00				
30			0.28		30		
31			0.27				

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO II				SECCION: Ruta Nacional N° 95 MES: FEBRERO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.25				
2			0.20				
3			0.16				
4			0.12				
5			0.47		50		
6			0.66		16		
7			0.62				
8			0.58				
9			0.53				
10			0.49				
11			0.53		12		
12			0.48				
13			0.42				
14			0.37				
15			0.32				
16			0.27				
17			0.23				
18			0.18				
19			0.39		27		
20			0.34				
21			0.29				
22			0.23				
23			0.18		8		
24			0.34		12		
25			0.28				
26			0.22				
27			0.62		51		
28			0.60				
29							
30							
31							

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO II				SECCION: Ruta Nacional N° 95 MES: MARZO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.55				
2			0.50				
3			0.46				
4			0.41				
5			0.37				
6			0.32				
7			0.27				
8			0.21				
9			0.16				
10			0.12				
11			0.07				
12			0.02				
13			0.46		66		
14			0.46				
15			0.41				
16			0.36				
17			0.32				
18			0.26				
19			0.22				
20			0.17				
21			0.13				
22			0.08				
23			0.25		23		
24			0.20				
25			0.16				
26			-				
27			-				
28			-				
29			-				
30			-				
31			-				

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO I				SECCION: Ruta Nacional N° 95 MES: JULIO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [mm]	d [hr]	
1			0.00				
2			0.00				
3			0.00				
4			0.00				
5			0.00				
6			0.00				
7			0.00				
8			0.00				
9			0.00				
10			0.00				
11			0.00				
12			0.00				
13			0.00				
14			0.00				
15			0.00				
16			0.00				
17			0.00				
18			0.00				
19			0.00				
20			0.00				
21			0.00				
22			0.00				
23			0.00				
24			0.00				
25			0.00				
26			0.00				
27			0.00				
28			0.00				
29			0.00				
30			0.00				
31			0.00				

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO I				SECCION: Ruta Nacional N° 95 MES: AGOSTO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.00				
2			0.00				
3			0.00				
4			0.00				
5			0.00				
6			0.00				
7			0.00				
8			0.00				
9			0.00				
10			0.00				
11			0.00				
12			0.00				
13			0.00				
14			0.00				
15			0.00				
16			0.00				
17			0.00				
18			0.00				
19			0.00				
20			0.00				
21			0.00				
22			0.00				
23			0.00				
24			0.00				
25			0.00				
26			0.00		6		
27			0.00				
28			0.00				
29			0.00				
30			0.00				
31			0.00				

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO I				SECCION: Ruta Nacional N° 95 MES: SEPTIEMBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [mm]	d [hr]	
1			0.00				
2			0.00				
3			0.00				
4			0.00				
5			0.00				
6			0.00				
7			0.00				
8			0.03		12		
9			0.00				
10			0.00				
11			0.00				
12			0.00				
13			0.00				
14			0.00				
15			0.00				
16			0.00				
17			0.00				
18			0.00				
19			0.00				
20			0.00				
21			0.00				
22			0.12		29		
23			0.10				
24			0.10		7		
25			0.18		15		
26			0.15				
27			0.11		5		
28			0.07				
29			0.02				
30			0.00				
31							

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO I				SECCION: Ruta Nacional N° 95 MES: OCTUBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.09		12		
2			0.08		3		
3			0.06				
4			0.03				
5			0.19		20		
6			0.15				
7			0.12				
8			0.10		8		
9			0.06				
10			0.03				
11			0.00				
12			0.00				
13			0.15		23		
14			0.12				
15			0.09				
16			0.05				
17			0.02				
18			0.00				
19			0.15		21		
20			0.14				
21			0.13				
22			0.12				
23			0.10				
24			0.08				
25			0.05				
26			0.02				
27			0.00				
28			0.00				
29			0.00				
30			0.35		46		
31			0.31				

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO I				SECCION: Ruta Nacional N° 95 MES: NOVIEMBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [mm]	d [hr]	
1			0.15				
2			0.09				
3			0.03				
4			0.00				
5			0.00				
6			0.22		45		
7			0.17				
8			0.32		33		
9			0.46		26		
10			0.45				
11			0.40				
12			0.34				
13			0.28				
14			0.22				
15			0.15				
16			0.09				
17			0.03				
18			0.00				
19			0.00				
20			0.00				
21			0.00				
22			0.16		30		
23			0.11				
24			0.05				
25			0.01				
26			0.00				
27			0.00				
28			0.00				
29			0.00				
30			0.19		35		
31							

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO I				SECCION: Ruta Nacional N° 95 MES: DICIEMBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.13				
2			0.08				
3			0.02				
4			0.13		12		
5			0.09				
6			0.21		15		
7			0.15				
8			0.10				
9			0.75		125		
10			0.96		13		
11			0.90				
12			0.84				
13			0.78				
14			0.72				
15			0.66				
16			0.63				
17			0.59				
18			0.55				
19			0.54		4		
20			0.51				
21			0.48		2		
22			0.43				
23			0.38				
24			0.32				
25			0.48		45		
26			0.61		15		
27			0.56				
28			0.51				
29			0.45				
30			-				
31			-				

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO I				SECCION: Ruta Nacional N° 95 MES: ENERO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [mm]	d [hr]	
1			-				
2			-				
3			-				
4			-				
5			0.00				
6			0.00				
7			0.00				
8			0.00				
9			0.00				
10			0.00				
11			0.00				
12			0.00				
13			0.00				
14			0.00		6		
15			0.00				
16			0.00				
17			0.00				
18			0.00				
19			0.00		5		
20			0.00				
21			0.00				
22			0.00				
23			0.00				
24			0.00				
25			0.00				
26			0.00				
27			0.00		4		
28			0.00				
29			0.00				
30			0.12		37		
31			0.09				

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO I				SECCION: Ruta Nacional N° 95 MES: FEBRERO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.04				
2			0.01				
3			0.00				
4			0.00				
5			0.35		53		
6			0.48		18		
7			0.44				
8			0.39				
9			0.32				
10			0.28				
11			0.29		10		
12			0.25				
13			0.20				
14			0.14				
15			0.10				
16			0.05				
17			0.02				
18			0.00				
19			0.18		29		
20			0.13				
21			0.09				
22			0.04				
23			0.04		8		
24			0.08		14		
25			0.06				
26			0.04				
27			0.43		50		
28			0.39				
29							
30							
31							

Planilla de lecturas Hidrométricas

CANAL: BAJO HONDO I				SECCION: Ruta Nacional N° 95 MES: MARZO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.35				
2			0.30				
3			0.24				
4			0.20				
5			0.16				
6			0.12				
7			0.09				
8			0.04				
9			0.01				
10			0.00				
11			0.00				
12			0.00				
13			0.46		60		
14			0.45				
15			0.40				
16			0.36				
17			0.30				
18			0.25				
19			0.19				
20			0.14				
21			0.11				
22			0.07				
23			0.03				
24			0.00				
25			0.00				
26			0.00				
27			-				
28			-				
29			-				
30			-				
31			-				

Planilla de lecturas Hidrométricas

CANAL: DEFENSA NORTE SAN BERNARDO SECCION: Ruta Nacional N° 95 MES: JULIO							
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.00				
2			0.00				
3			0.00				
4			0.00				
5			0.00				
6			0.00				
7			0.00				
8			0.00				
9			0.00				
10			0.00				
11			-				
12			-				
13			-				
14			-				
15			-				
16			-				
17			-				
18			-				
19			-				
20			-				
21			-				
22			0.00				
23			0.00				
24			0.00				
25			0.00				
26			0.00				
27			0.00				
28			0.00				
29			0.00				
30			0.00				
31			0.00				

Planilla de lecturas Hidrométricas

CANAL: DEFENSA NORTE SAN BERNARDO SECCION: Ruta Nacional N° 95 MES: AGOSTO							
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [mm]	d [hr]	
1			0.00				
2			0.00				
3			0.00				
4			0.00				
5			0.00				
6			0.00				
7			0.00				
8			0.00				
9			0.00				
10			0.00				
11			0.00				
12			0.00				
13			0.00				
14			0.00				
15			0.00				
16			0.00				
17			0.00				
18			0.00				
19			0.00				
20			0.00				
21			0.00				
22			0.00				
23			0.00				
24			0.00				
25			0.00				
26			0.00				
27			0.00				
28			0.00				
29			0.00				
30			0.00				
31			0.00				

Planilla de lecturas Hidrométricas

CANAL: DEFENSA NORTE SAN BERNARDO SECCION: Ruta Nacional N° 95 MES: SEPTIEMBRE							
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [mm]	d [hr]	
1			0.00				
2			0.00				
3			0.00				
4			0.00				
5			0.00				
6			0.00				
7			0.00				
8			0.00		7		
9			0.00				
10			0.00				
11			0.00				
12			0.00				
13			0.00				
14			0.00				
15			0.00				
16			0.00				
17			0.00				
18			0.00				
19			0.00				
20			0.00				
21			0.00				
22			0.03		24		
23			0.00				
24			0.02		7		
25			0.04		12		
26			0.00				
27			0.00				
28			0.00				
29			0.00				
30			0.00				
31							

Planilla de lecturas Hidrométricas

CANAL: DEFENSA NORTE SAN BERNARDO SECCION: Ruta Nacional N° 95 MES: OCTUBRE							
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [mm]	d [hr]	
1			0.02		9		
2			0.12		20		
3			0.04				
4			0.00				
5			0.16		29		
6			0.10				
7			0.04				
8			0.00				
9			0.00				
10			0.00				
11			0.00				
12			0.00				
13			0.11		19		
14			0.06				
15			0.02				
16			0.00				
17			0.00				
18			0.00				
19			0.00				
20			0.00				
21			0.00				
22			0.00				
23			0.00				
24			0.00				
25			0.00				
26			0.00				
27			0.00				
28			0.00				
29			0.00				
30			0.05		20		
31			0.00				

Planilla de lecturas Hidrométricas

CANAL: DEFENSA NORTE SAN BERNARDO SECCION: Ruta Nacional N° 95 MES: NOVIEMBRE							
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.00				
2			0.05		10		
3			0.01				
4			0.00				
5			0.00				
6			0.42		105		
7			0.49		3		
8			0.54		25		
9			0.56		71		
10			0.81				
11			0.75				
12			0.68				
13			0.61				
14			0.62		50		
15			0.69				
16			0.66				
17			0.63				
18			0.60				
19			0.54				
20			0.48				
21			0.41				
22			0.42		21		
23			0.42				
24			0.38				
25			0.32				
26			0.27				
27			0.21				
28			0.15				
29			0.09				
30			0.25		57		
31							

Planilla de lecturas Hidrométricas

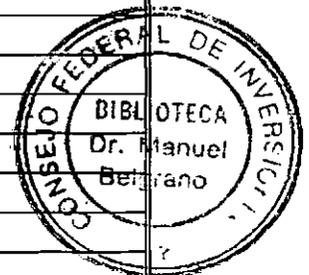
CANAL: DEFENSA NORTE SAN BERNARDO SECCION: Ruta Nacional N° 95							
MES: DICIEMBRE							
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.24				
2			0.22				
3			0.19				
4			0.37		41		
5			0.36				
6			0.32				
7			0.27				
8			0.25		7		
9			0.37		42		
10			0.39		3		
11			0.40				
12			0.34				
13			0.28				
14			0.23				
15			0.19				
16			0.14		2		
17			0.09				
18			0.03				
19			0.00				
20			0.00				
21			0.00				
22			0.00				
23			-				
24			-				
25			-				
26			-				
27			-				
28			-				
29			-				
30			-				
31			-				

Planilla de lecturas Hidrométricas

CANAL: DEFENSA NORTE SAN BERNARDO SECCION: Ruta Nacional N° 95							
MES: ENERO							
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			-				
2			-				
3			-				
4			0.00				
5			0.00				
6			0.00				
7			0.00				
8			0.00				
9			0.00				
10			0.00				
11			0.00				
12			0.00				
13			0.00				
14			0.00				
15			0.00				
16			0.00				
17			0.00				
18			0.00				
19			0.00				
20			0.00				
21			0.00				
22			0.00				
23			0.00				
24			0.00				
25			0.00				
26			0.00				
27			0.00		33		
28			0.10				
29			0.04				
30			0.00				
31			0.00				

Planilla de lecturas Hidrométricas

CANAL: DEFENSA NORTE SAN BERNARDO SECCION: Ruta Nacional N° 95 MES: FEBRERO							
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [mm]	d [hr]	
1			0.00				
2			0.00				
3			0.00				
4			0.00				
5			0.22		45		
6			0.19		2		
7			0.15		2		
8			0.11				
9			0.05				
10			0.00				
11			0.01		6		
12			0.00				
13			0.00				
14			0.03		13		
15			0.00		2		
16			0.00				
17			0.00				
18			0.00				
19			0.20		40		
20			0.19				
21			0.15				
22			0.11				
23			0.08		2		
24			0.03				
25			0.00				
26			0.00				
27			0.20		42		
28			0.20				
29							
30							
31							



Planilla de lecturas Hidrométricas

CANAL: DEFENSA NORTE SAN BERNARDO SECCION: Ruta Nacional N° 95 MES: MARZO							
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.15				
2			0.09				
3			0.02				
4			0.00				
5			0.00				
6			0.00				
7			0.00				
8			0.00				
9			0.00				
10			0.00				
11			0.00				
12			0.00				
13			0.22		51		
14			0.17				
15			0.10				
16			0.05				
17			0.01				
18			0.00				
19			0.00				
20			0.00				
21			0.00		1		
22			0.00				
23			0.00		3		
24			0.00				
25			0.00				
26			-				
27			-				
28			-				
29			-				
30			-				
31			-				

Planilla de lecturas Hidrométricas

CANAL: DEFENSA OESTE DE VILLA ANGELA				SECCION: Ruta Nacional N° 95 MES: JULIO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.15				
2			0.15				
3			0.15				
4			0.15				
5			0.15				
6			0.15				
7			0.15				
8			0.15				
9			0.15				
10			0.15				
11			0.15				
12			0.15				
13			0.14				
14			0.14				
15			0.14				
16			0.14				
17			0.14				
18			0.14				
19			0.14				
20			0.14				
21			0.14				
22			0.14				
23			0.14				
24			0.14				
25			0.14				
26			0.14				
27			0.14				
28			0.14				
29			0.14				
30			0.14				
31			0.14				

Planilla de lecturas Hidrométricas

CANAL: DEFENSA OESTE DE VILLA ANGELA				SECCION: Ruta Nacional N° 95 MES: AGOSTO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.14				
2			0.14				
3			0.14				
4			0.14				
5			0.14				
6			0.14				
7			0.13				
8			0.13				
9			0.13				
10			0.13				
11			0.13				
12			0.13				
13			0.13				
14			0.13				
15			0.13				
16			0.13				
17			0.13				
18			0.13				
19			0.13				
20			0.13		5		
21			0.13				
22			0.13				
23			0.13				
24			0.13				
25			0.13				
26			0.13				
27			0.13				
28			0.13				
29			0.13				
30			0.13				
31			0.13				

Planilla de lecturas Hidrométricas

CANAL: DEFENSA OESTE DE VILLA ANGELA				SECCION: Ruta Nacional N° 95 MES: SEPTIEMBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [mm]	d [hr]	
1			0.13				
2			0.13				
3			0.13				
4			0.13				
5			0.13				
6			0.13				
7			0.13				
8			0.13		5		
9			0.13				
10			0.13				
11			0.13				
12			0.13				
13			0.12				
14			0.12				
15			0.12				
16			0.12				
17			0.12				
18			0.12				
19			0.12				
20			0.12				
21			0.12				
22			0.14		36		
23			0.18				
24			0.20		12		
25			0.25		20		
26			0.34		5		
27			0.38				
28			0.37				
29			0.34				
30			0.30				
31							

Planilla de lecturas Hidrométricas

CANAL: DEFENSA OESTE DE VILLA ANGELA				SECCION: Ruta Nacional N° 95 MES:OCTUBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [mm]	d [hr]	
1			0.27		5		
2			0.27		5		
3			0.24				
4			0.20				
5			0.26		30		
6			0.37				
7			0.33				
8			0.30				
9			0.31		21		
10			0.33		21		
11			0.42				
12			0.38				
13			0.36		26		
14			0.43				
15			0.46				
16			0.43				
17			0.40				
18			0.36				
19			0.32		4		
20			0.27				
21			0.22				
22			0.18				
23			0.15				
24			0.15				
25			0.15				
26			0.14				
27			0.14				
28			0.14				
29			0.14				
30			0.17		25		
31			0.18				

Planilla de lecturas Hidrométricas

CANAL: DEFENSA OESTE DE VILLA ANGELA				SECCION: Ruta Nacional N° 95 MES: NOVIEMBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.16				
2			0.18		20		
3			0.16				
4			0.15				
5			0.15				
6			0.35		80		
7			0.43		17		
8			0.56		55		
9			0.68		15		
10			0.79				
11			0.78				
12			0.76				
13			0.73				
14			0.73		10		
15			0.71				
16			0.67				
17			0.63				
18			0.59				
19			0.55				
20			0.50				
21			0.46				
22			0.46		15		
23			0.48				
24			0.44				
25			0.40				
26			0.37				
27			0.33				
28			0.30				
29			0.26				
30			0.29		35		
31							

Planilla de lecturas Hidrométricas

CANAL: DEFENSA OESTE DE VILLA ANGELA				SECCION: Ruta Nacional N° 95 MES: DICIEMBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.36				
2			0.33				
3			0.30				
4			0.31		31		
5			0.34				
6			0.36		42		
7			-				
8			-				
9			0.45		55		
10			0.49		10		
11			0.53				
12			0.50				
13			0.46				
14			0.42				
15			0.39				
16			0.36				
17			0.32				
18			0.29				
19			0.28		15		
20			0.30				
21			0.29		10		
22			0.26				
23			0.23				
24			-				
25			-				
26			0.21				
27			0.18				
28			0.15				
29			0.15				
30			0.15				
31			-				

Planilla de lecturas Hidrométricas

CANAL: DEFENSA OESTE DE VILLA ANGELA				SECCION: Ruta Nacional N° 95 MES: ENERO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			-				
2			0.15				
3			0.15				
4			0.15				
5			0.15				
6			0.15				
7			0.15				
8			0.15				
9			0.15				
10			0.15				
11			0.15				
12			0.15				
13			0.15				
14			0.15				
15			0.15				
16			0.15				
17			0.15				
18			0.15				
19			0.15				
20			0.15				
21			0.15				
22			0.15				
23			0.15				
24			0.15				
25			0.15				
26			0.15				
27			0.19		43		
28			0.33				
29			0.32				
30			0.30				
31			0.26				

Planilla de lecturas Hidrométricas

CANAL: DEFENSA OESTE DE VILLA ANGELA				SECCION: Ruta Nacional N° 95 MES: FEBRERO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.23				
2			0.20				
3			0.18				
4			0.16				
5			0.51		70		
6			0.79		7		
7			0.90		8		
8			0.95				
9			0.91				
10			0.76				
11			0.72				
12			0.68				
13			0.64				
14			0.60		4		
15			0.62		28		
16			0.61				
17			0.60				
18			0.62		12		
19			0.62		45		
20			0.92		3		
21			0.86				
22			0.82				
23			0.80		13		
24			0.82				
25			0.77				
26			0.74				
27			0.79		45		
28			1.12				
29							
30							
31							

Planilla de lecturas Hidrométricas

CANAL: DEFENSA OESTE DE VILLA ANGELA				SECCION: Ruta Nacional N° 95 MES: MARZO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [mm]	d [hr]	
1			1.08				
2			1.04				
3			1.00				
4			0.95				
5			0.90				
6			0.86				
7			0.82				
8			0.76				
9			0.72				
10			0.69				
11			0.70		20		
12			0.75				
13			0.79		47		
14			1.11				
15			1.07				
16			1.03				
17			0.98				
18			0.94				
19			0.90				
20			0.86				
21			0.81		2		
22			0.76		3		
23			0.74		12		
24			0.80				
25			0.76				
26			-				
27			-				
28			-				
29			-				
30			-				
31			-				

Planilla de lecturas Hidrométricas

CANAL: TRAMO III LINEA PARANA ( La Viruela )				SECCION: Ruta Provincial N° 17 MES: JULIO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.35				
2			0.35				
3			0.35				
4			0.35				
5			0.35				
6			0.34				
7			0.34				
8			0.34				
9			0.34				
10			0.34				
11			0.34				
12			0.33				
13			0.33				
14			0.33				
15			0.33				
16			0.33				
17			0.33				
18			0.33				
19			0.33				
20			0.32				
21			0.31				
22			0.31				
23			0.31				
24			0.30				
25			0.30				
26			0.30				
27			0.29				
28			0.29				
29			0.28				
30			0.28				
31			0.27				

Planilla de lecturas Hidrométricas

CANAL: TRAMO III LINEA PARANA ( La Viruela )				SECCION: Ruta Provincial N° 17 MES: AGOSTO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.27				
2			0.27				
3			0.27				
4			0.27				
5			0.27				
6			0.27				
7			0.27				
8			0.27				
9			0.27				
10			0.26				
11			0.26				
12			0.26				
13			0.26				
14			0.26				
15			0.26				
16			0.26				
17			0.26				
18			0.26				
19			0.26				
20			0.26				
21			0.26				
22			0.28				
23			0.28				
24			0.28				
25			0.27				
26			0.27				
27			0.27				
28			0.27				
29			0.27				
30			0.27				
31			0.27				

Planilla de lecturas Hidrométricas

CANAL: TRAMO III LINEA PARANA ( La Viruela )				SECCION: Ruta Provincial N° 17 MES: SEPTIEMBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.26				
2			0.26				
3			0.26				
4			0.26				
5			0.26				
6			0.26				
7			0.26				
8			0.26				
9			0.26				
10			0.27				
11			0.27				
12			0.27				
13			0.26				
14			0.26				
15			0.26				
16			0.26				
17			0.26				
18			0.26				
19			0.26				
20			0.26				
21			0.26				
22			0.26				
23			0.27				
24			0.29				
25			0.31				
26			0.31				
27			0.31				
28			0.32				
29			0.32				
30			0.32				
31							

Planilla de lecturas Hidrométricas

CANAL: TRAMO III LINEA PARANA ( La Viruela )				SECCION: Ruta Provincial N° 17 MES: OCTUBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [mm]	d [hr]	
1			0.31				
2			0.30				
3			0.30				
4			0.29				
5			0.29				
6			0.28				
7			0.30				
8			0.31				
9			0.31				
10			0.30				
11			0.30				
12			0.32				
13			0.33				
14			0.32				
15			0.33				
16			0.33				
17			0.32				
18			0.32				
19			0.31				
20			0.29				
21			0.29				
22			0.29				
23			0.29				
24			0.28				
25			0.28				
26			0.28				
27			0.27				
28			0.27				
29			0.26				
30			0.26				
31			0.28				

Planilla de lecturas Hidrométricas

CANAL: TRAMO III LINEA PARANA ( La Viruela )				SECCION: Ruta Provincial N° 17 MES:NOVIEMBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.29				
2			0.29				
3			0.30				
4			0.31				
5			0.30				
6			0.29				
7			0.33				
8			0.39				
9			0.45				
10			0.58				
11			0.59				
12			0.58				
13			0.58				
14			0.57				
15			0.57				
16			0.57				
17			0.56				
18			0.56				
19			0.55				
20			0.55				
21			0.54				
22			0.54				
23			0.54				
24			0.56				
25			0.55				
26			0.55				
27			0.54				
28			0.54				
29			0.53				
30			0.53				
31							

Planilla de lecturas Hidrométricas

CANAL: TRAMO III LINEA PARANA ( La Viruela )				SECCION: Ruta Provincial N° 17 MES: DICIEMBRE			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.55				
2			0.59				
3			0.58				
4			0.57				
5			0.59				
6			0.61				
7			0.65				
8			0.65				
9			0.64				
10			0.72				
11			0.74				
12			0.74				
13			0.73				
14			0.73				
15			0.72				
16			0.72				
17			0.72				
18			0.71				
19			0.71				
20			0.71				
21			0.71				
22			0.72				
23			0.72				
24			0.71				
25			0.71				
26			0.75				
27			0.74				
28			0.74				
29			0.73				
30			0.73				
31			0.72				

Planilla de lecturas Hidrométricas

CANAL: TRAMO III LINEA PARANA ( La Viruela )				SECCION: Ruta Provincial N° 17 MES:ENERO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.71				
2			0.70				
3			0.68				
4			0.67				
5			0.66				
6			0.64				
7			0.64				
8			0.62				
9			0.61				
10			0.60				
11			0.60				
12			0.60				
13			0.58				
14			0.58				
15			0.57				
16			0.57				
17			0.56				
18			0.56				
19			0.56				
20			0.55				
21			0.54				
22			0.53				
23			0.52				
24			0.52				
25			0.51				
26			0.50				
27			0.49				
28			0.52				
29			0.55				
30			0.54				
31			0.53				

Planilla de lecturas Hidrométricas

CANAL: TRAMO III LINEA PARANA ( La Viruela )				SECCION: Ruta Provincial N° 17 MES: FEBRERO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.52				
2			0.51				
3			0.50				
4			0.50				
5			0.48				
6			0.52				
7			0.56				
8			0.58				
9			0.62				
10			0.61				
11			0.61				
12			0.60				
13			0.60				
14			0.59				
15			0.58				
16			0.57				
17			0.56				
18			0.56				
19			0.56				
20			0.57				
21			0.58				
22			0.63				
23			0.62				
24			0.62				
25			0.63				
26			0.63				
27			0.62				
28			0.65				
29							
30							
31							

Planilla de lecturas Hidrométricas

CANAL: TRAMO III LINEA PARANA ( La Viruela )				SECCION: Ruta Provincial N° 17 MES: MARZO			
DIAS	HORA				PRECIPITACION		OBSERVACIONES
	8	12	16	20	P [ mm ]	d [ hr ]	
1			0.68				
2			0.67				
3			0.67				
4			0.66				
5			0.65				
6			0.64				
7			0.62				
8			0.62				
9			0.61				
10			0.60				
11			0.58				
12			0.57				
13			0.56				
14			0.57				
15			0.56				
16			0.55				
17			0.55				
18			0.54				
19			0.54				
20			0.54				
21			0.53				
22			0.53				
23			0.52				
24			0.51				
25			0.51				
26			0.50				
27			-				
28			-				
29			-				
30			-				
31			-				

## ANEXO LAMINAS

**CONSEJO FEDERAL DE INVERSIONES**

**PROGRAMA MASAPA - PROVINCIA DEL CHACO**

TEMA: Relevamiento y Actualizacion  
de Datos e Informacion Hidrologica

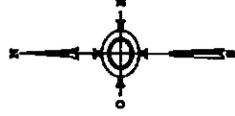
Consultor: Ing. Luis Hector MARTINEZ

**Lamina N. 1 UBICACION GENERAL**

Fecha: Abril - 1987  
Escala = 1 : 2.800.000

SALTA

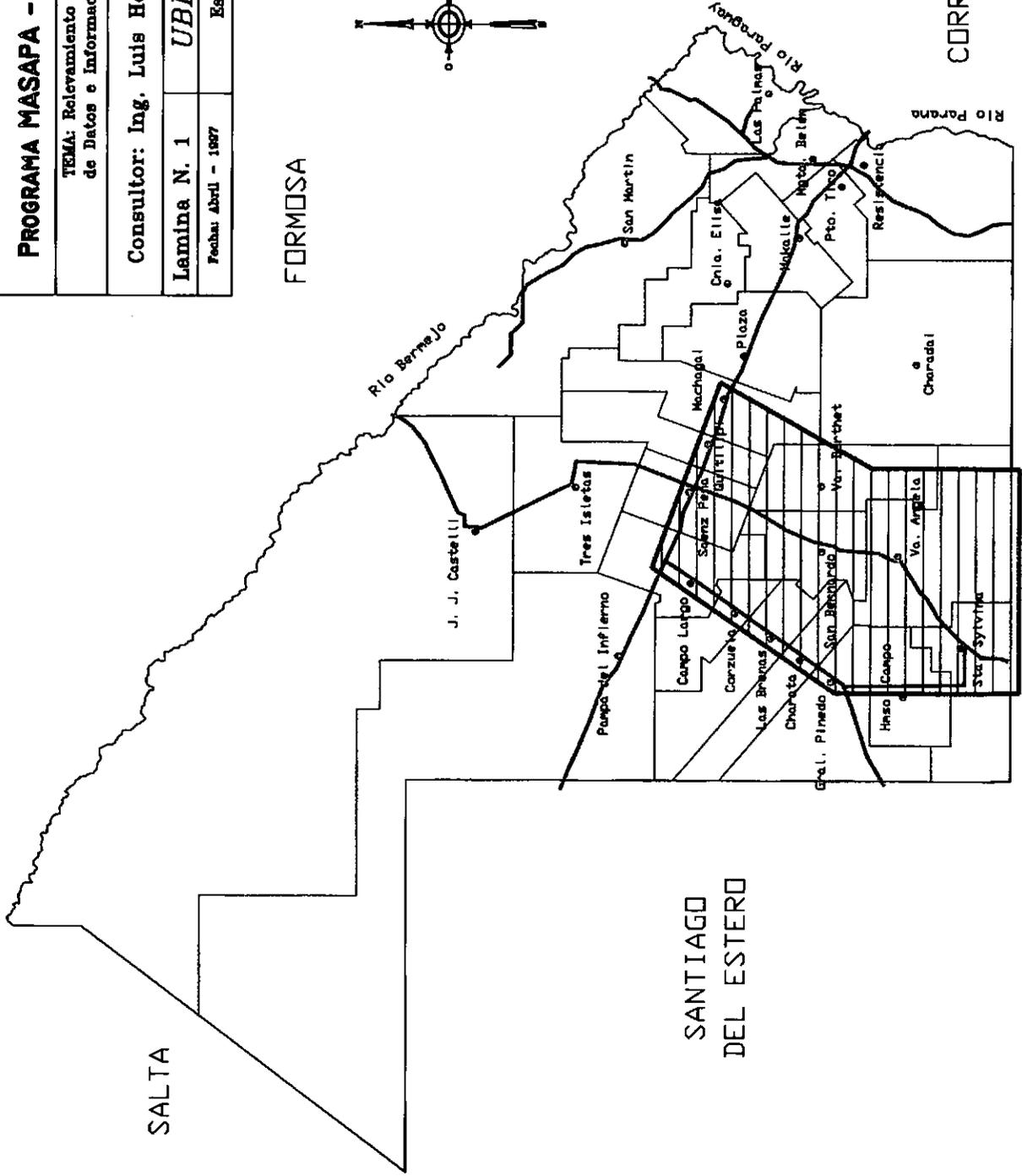
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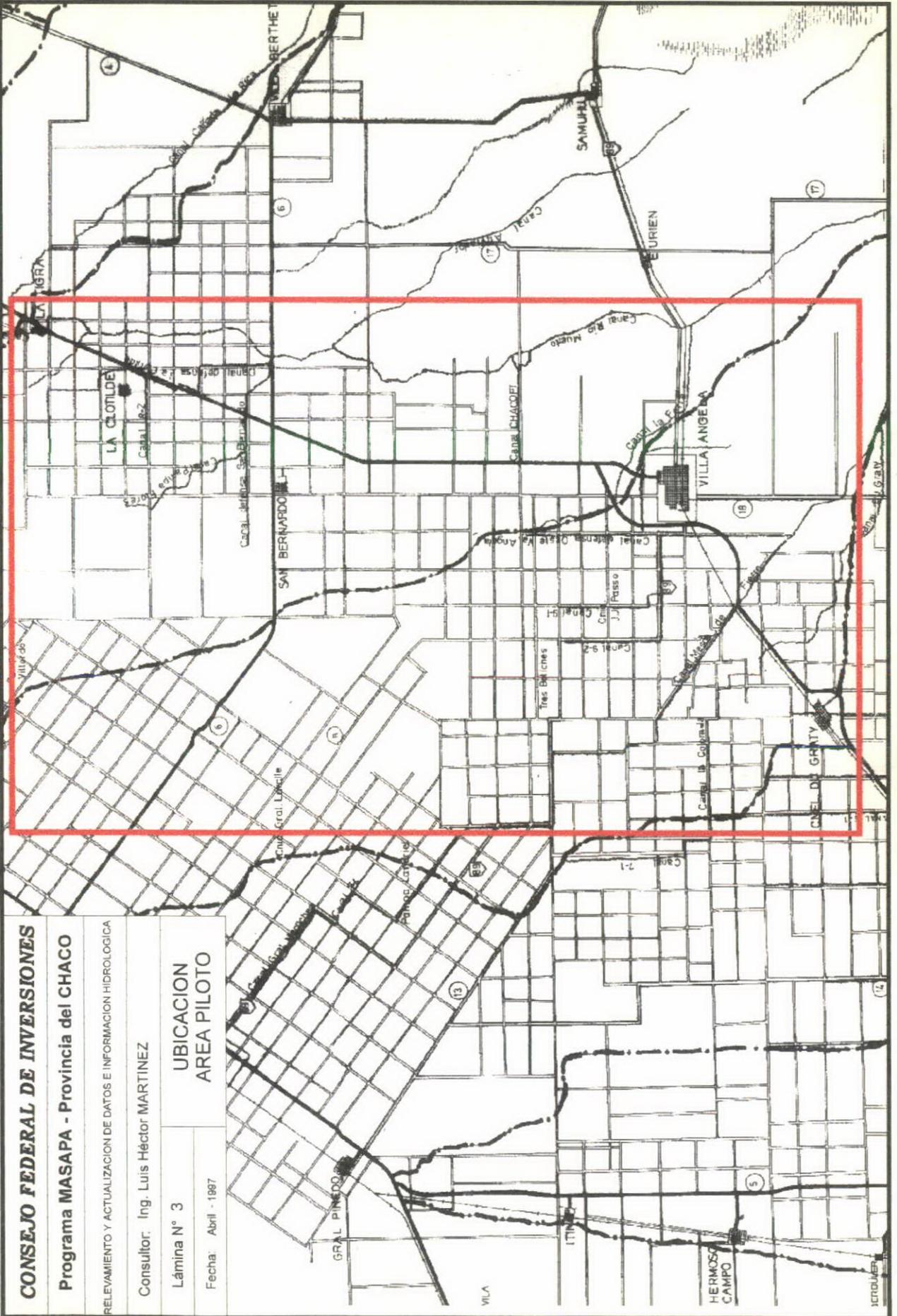
SANTIAGO  
DEL ESTERO

CORRIENTES

SANTA FE







**CONSEJO FEDERAL DE INVERSIONES**

**Programa MASAPA - Provincia del CHACO**

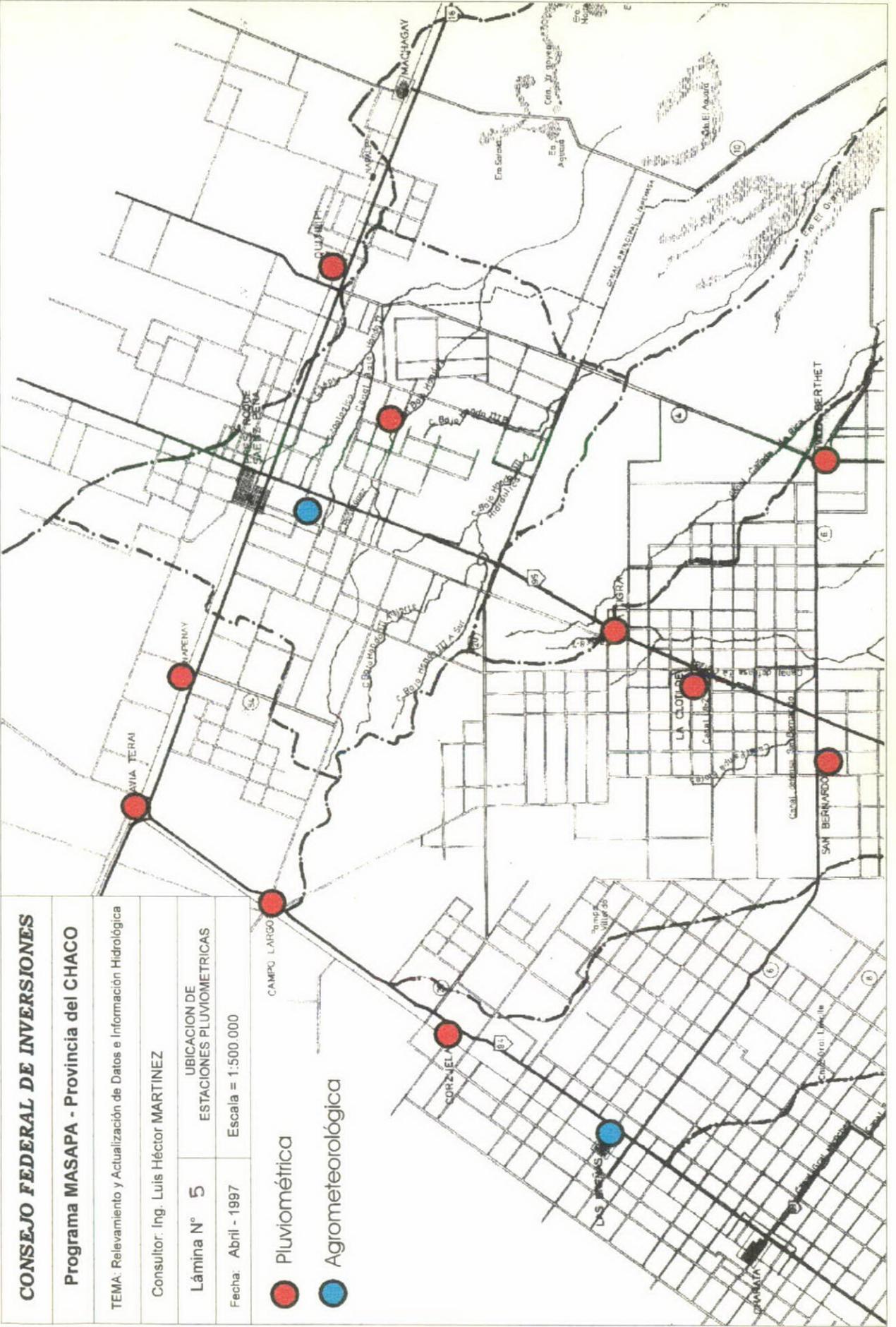
RELEVAMIENTO Y ACTUALIZACION DE DATOS E INFORMACION HIDROLOGICA

Consultor: Ing. Luis Héctor MARTINEZ

Lámina N° 3  
**UBICACION  
 AREA PILOTO**

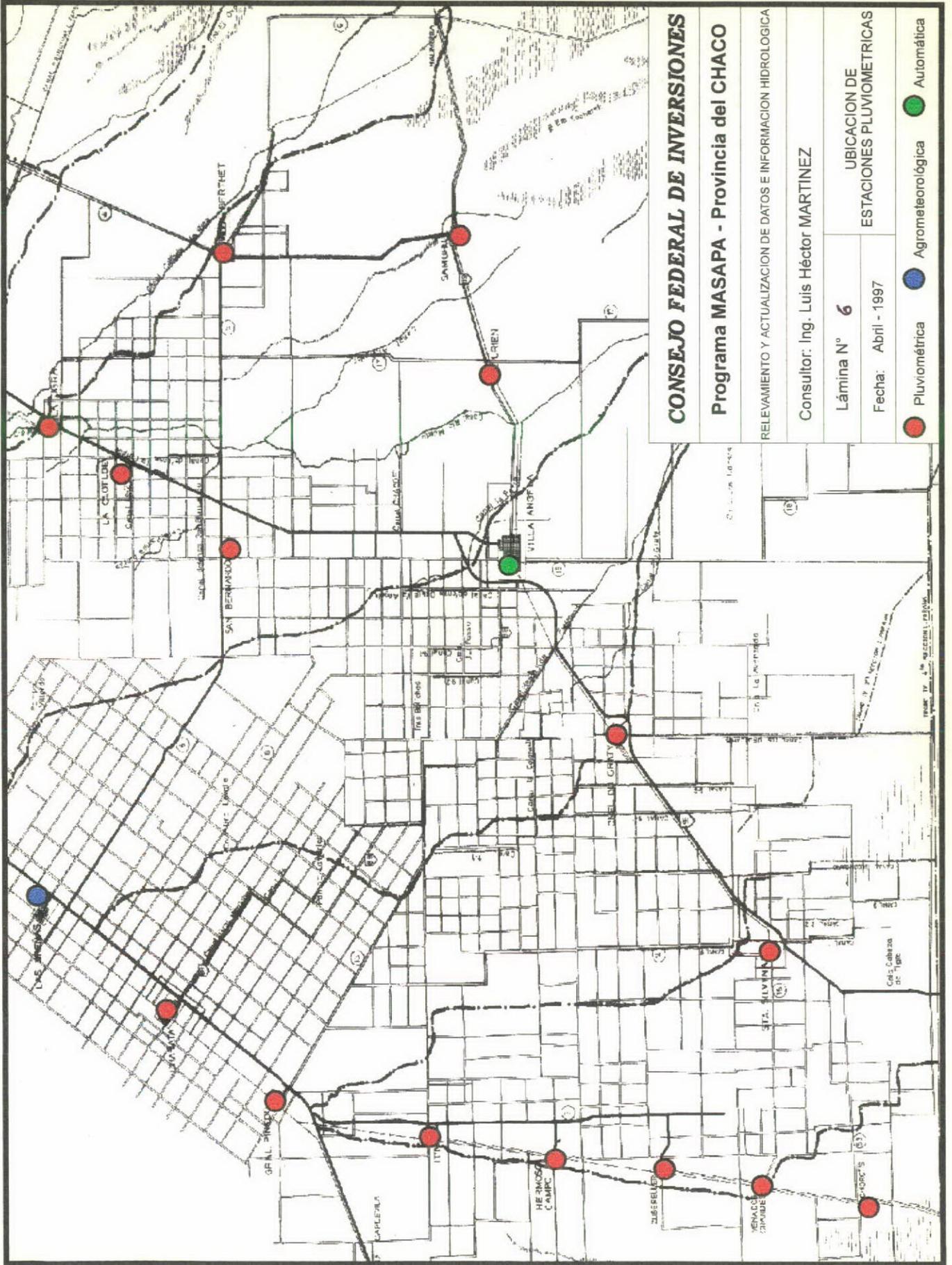
Fecha: Abril - 1987





<b>CONSEJO FEDERAL DE INVERSIONES</b>	
<b>Programa MASAPA - Provincia del CHACO</b>	
TEMA: Relevamiento y Actualización de Datos e Información Hidrológica	
Consultor: Ing. Luis Héctor MARTÍNEZ	
Lámina N° 5	UBICACION DE ESTACIONES PLUVIOMETRICAS
Fecha: Abril - 1997	Escala = 1:500.000

- Pluviométrica
- Agrometeorológica



**CONSEJO FEDERAL DE INVERSIONES**

**Programa MASAPA - Provincia del CHACO**

RELEVAMIENTO Y ACTUALIZACION DE DATOS E INFORMACION HIDROLOGICA

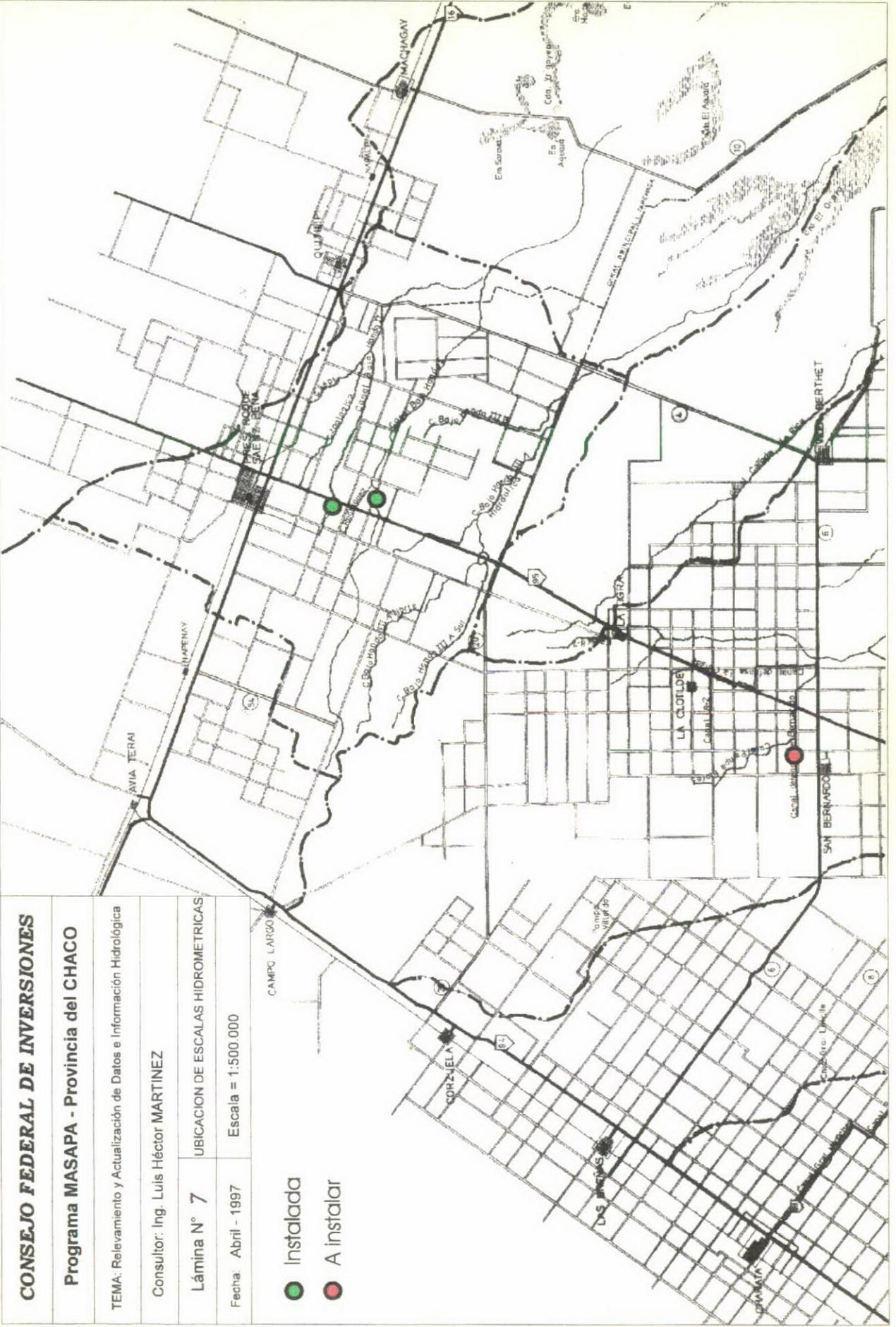
Consultor: Ing. Luis Héctor MARTINEZ

Lámina N° 6

Fecha: Abril - 1997

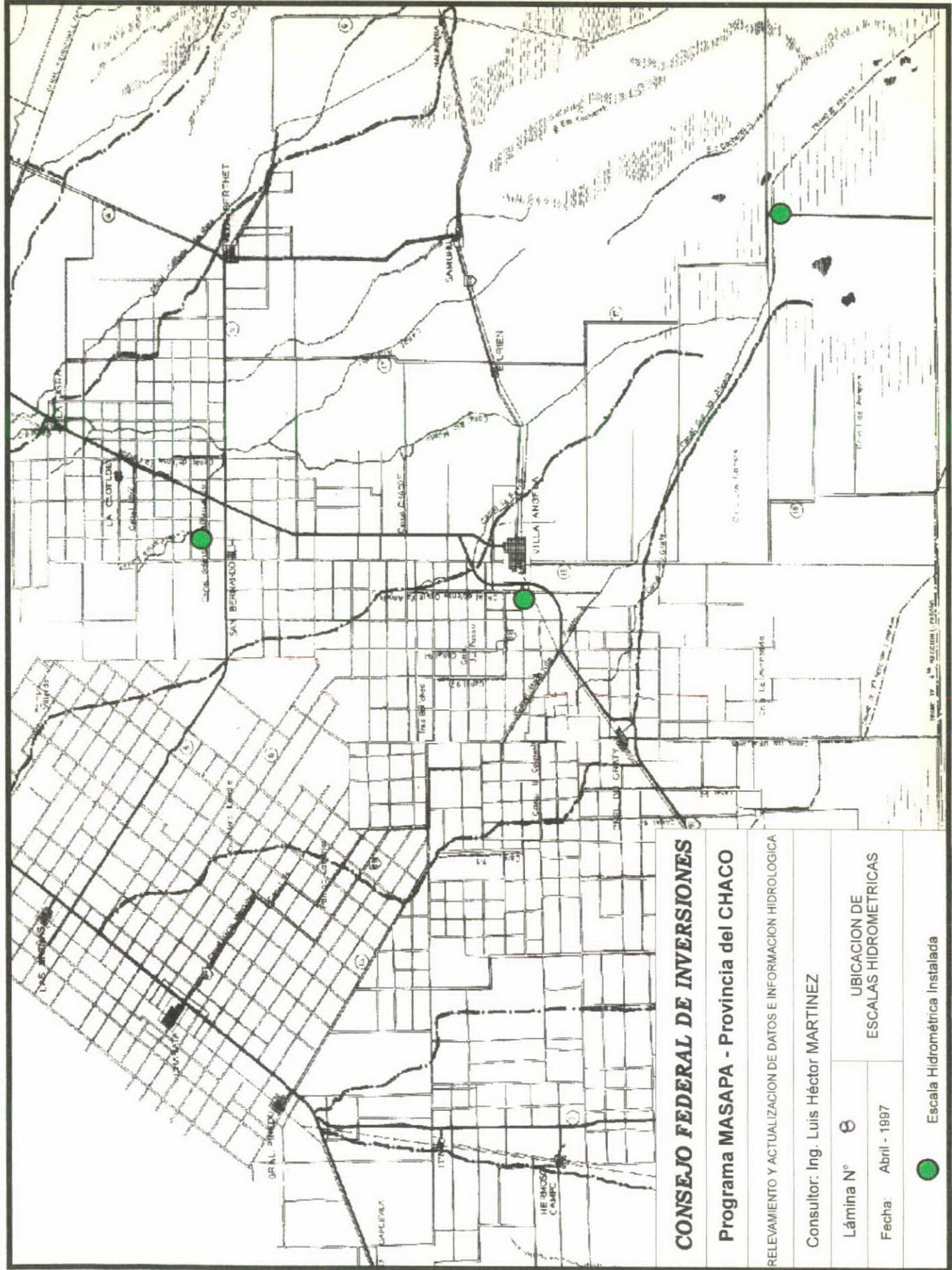
UBICACION DE ESTACIONES PLUVIOMETRICAS

- Pluviométrica
- Agrometeorológica
- Automática



<b>CONSEJO FEDERAL DE INVERSIONES</b>	
<b>Programa MASAPA - Provincia del CHACO</b>	
TEMA: Relevamiento y Actualización de Datos e Información Hidrológica	
Consultor: Ing. Luis Héctor MARTÍNEZ	
Lámina N° 7	UBICACION DE ESCALAS HIDROMETRICAS
Fecha: Abril - 1997	Escala = 1:500.000

- Instalada
- A Instalar



**CONSEJO FEDERAL DE INVERSIONES**

**Programa MASAPA - Provincia del CHACO**

RELEVAMIENTO Y ACTUALIZACION DE DATOS E INFORMACION HIDROLOGICA

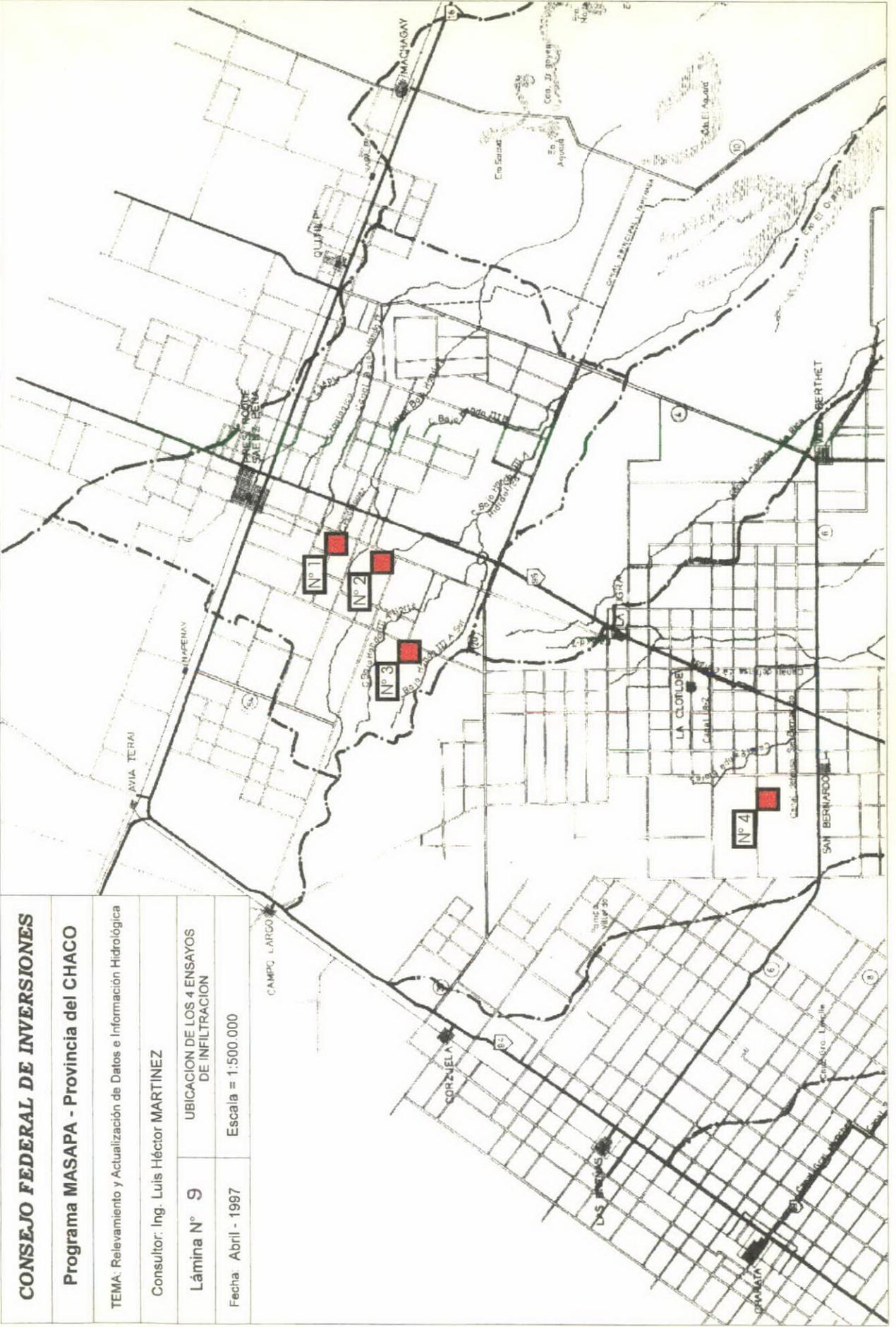
Consultor: Ing. Luis Héctor MARTINEZ

Lámina N° 8  
 UBICACION DE  
 ESCALAS HIDROMETRICAS

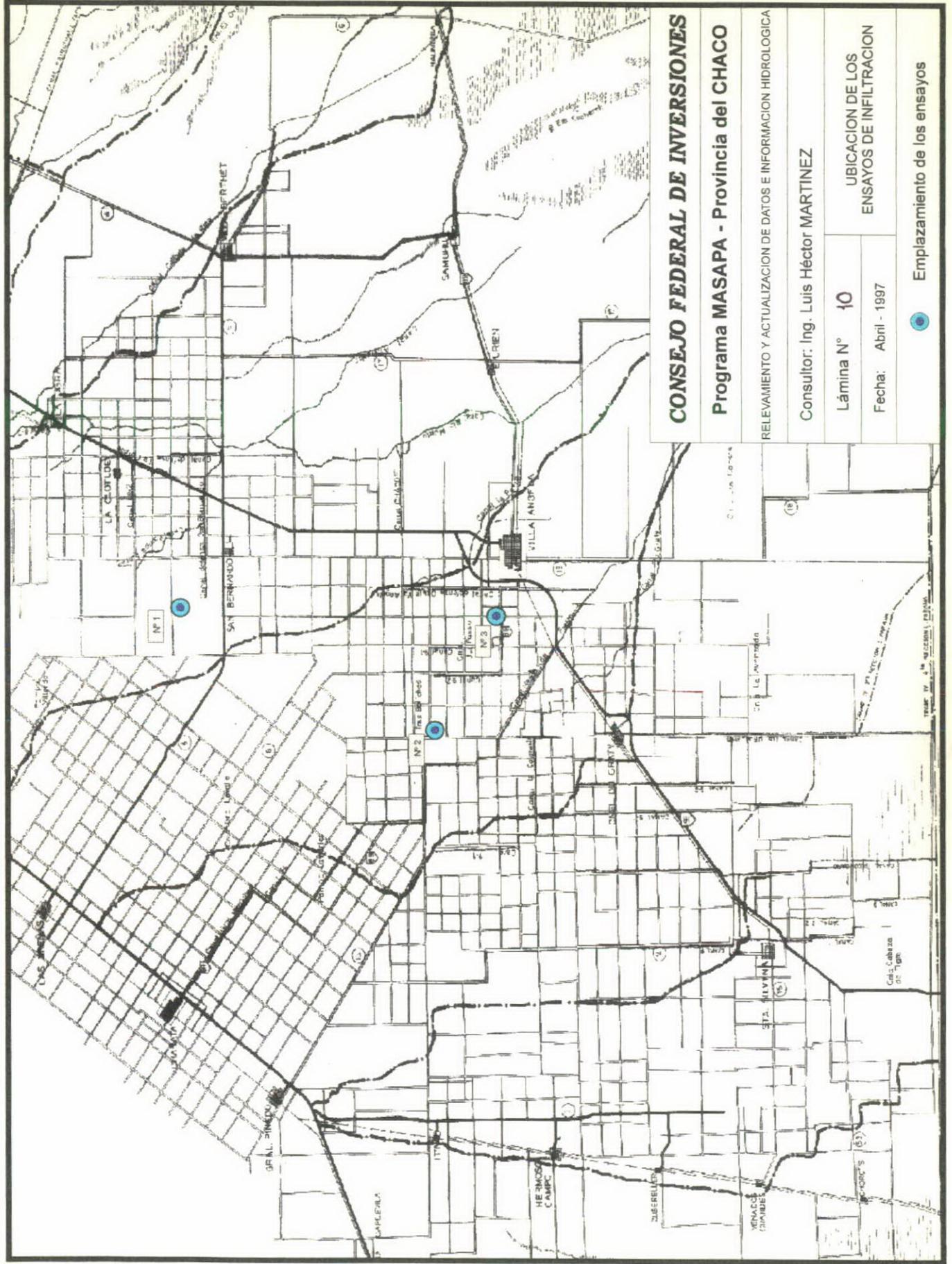
Fecha: Abril - 1997



Escala Hidrométrica Instalada



<b>CONSEJO FEDERAL DE INVERSIONES</b>	
<b>Programa MASAPA - Provincia del CHACO</b>	
TEMA: Relevamiento y Actualización de Datos e Información Hidrológica	
Consultor: Ing. Luis Héctor MARTÍNEZ	
Lámina N° 9	UBICACION DE LOS 4 ENSAYOS DE INFILTRACION
Fecha: Abril - 1997	Escala = 1:500.000



**CONSEJO FEDERAL DE INVERSIONES**

**Programa MASAPA - Provincia del CHACO**

RELEVAMIENTO Y ACTUALIZACION DE DATOS E INFORMACION HIDROLOGICA

Consultor: Ing. Luis Héctor MARTINEZ

Lámina N° 10

UBICACION DE LOS  
ENSAYOS DE INFILTRACION

Fecha: Abril - 1997

● Emplazamiento de los ensayos

**CONSEJO FEDERAL DE INVERSIONES**

**Programa MASAPA - Provincia del CHACO**

TEMA: Relevamiento y Actualización de Datos e Información Hidrológica

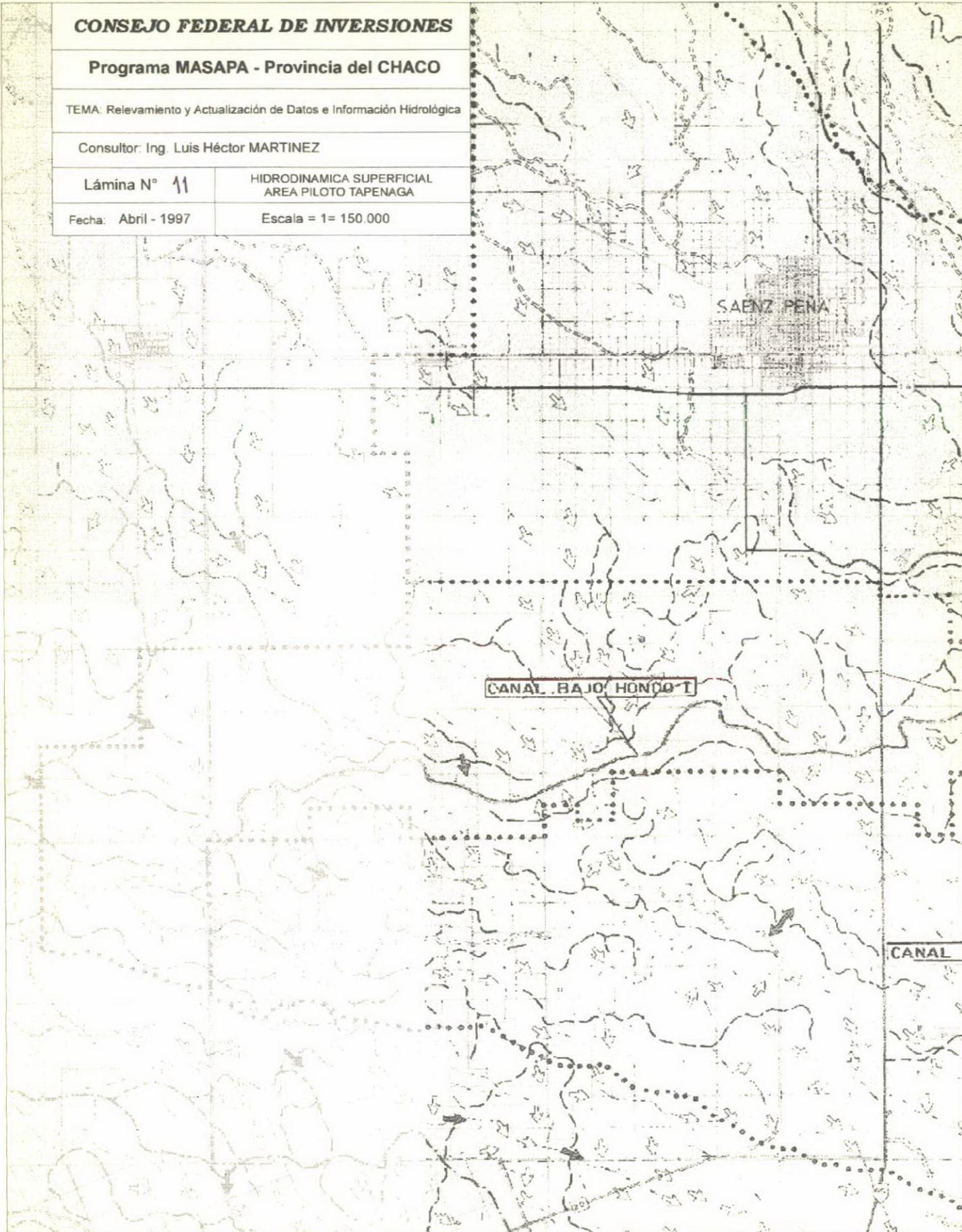
Consultor: Ing. Luis Héctor MARTINEZ

Lámina N° 11

HIDRODINAMICA SUPERFICIAL  
AREA PILOTO TAPENAGA

Fecha: Abril - 1997

Escala = 1= 150.000



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**Programa MASAPA - Provincia del CHACO**

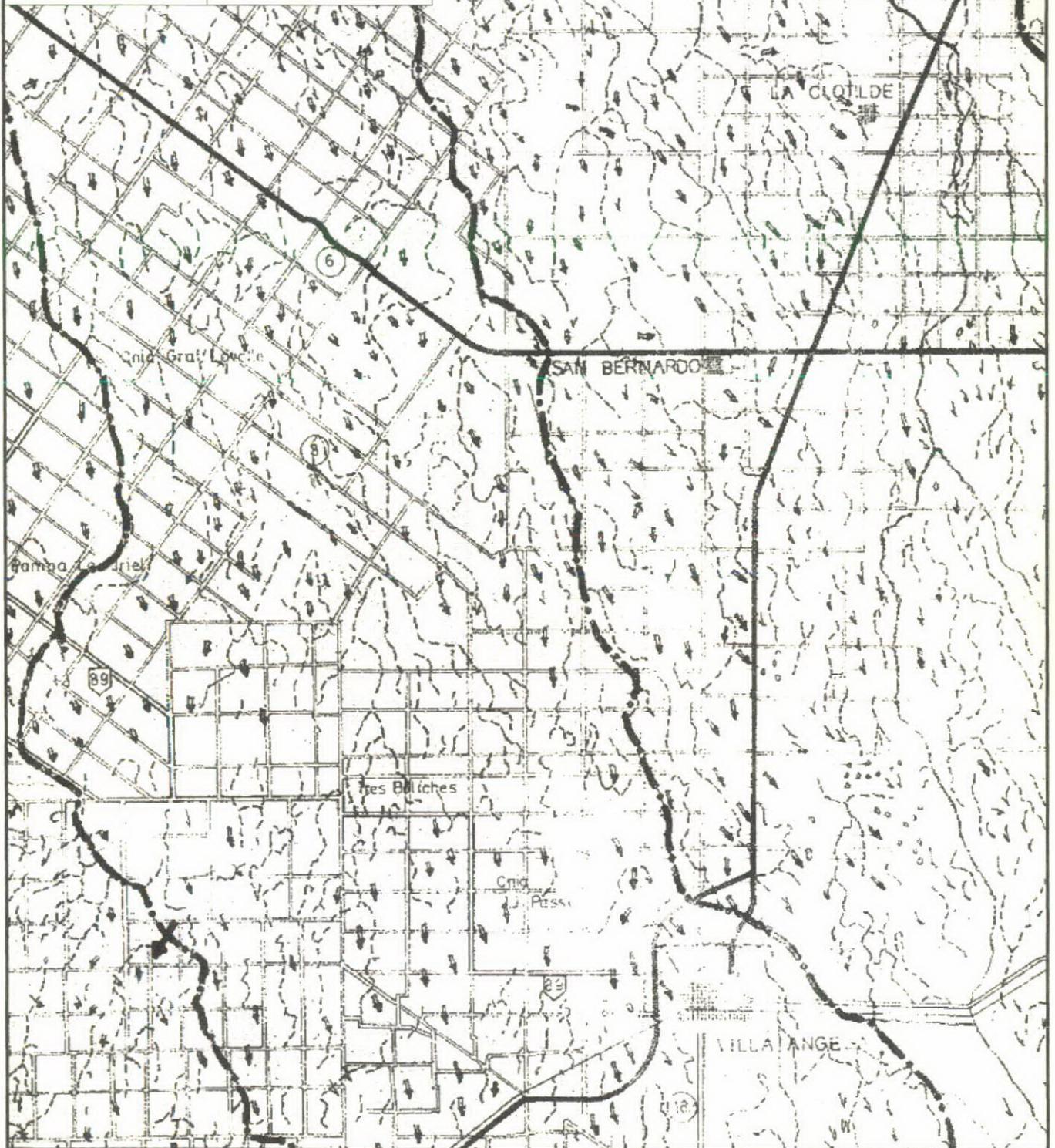
RELEVAMIENTO Y ACTUALIZACION DE DATOS E INFORMACION HIDROLOGICA

Consultor: Ing. Luis Héctor MARTINEZ

Lámina N° 12

HIDRODINAMICA SUPERFICIAL  
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TEMA: Relevamiento y Actualización de Datos e Información Hidrológica

Consultor: Ing. Luis Héctor MARTINEZ

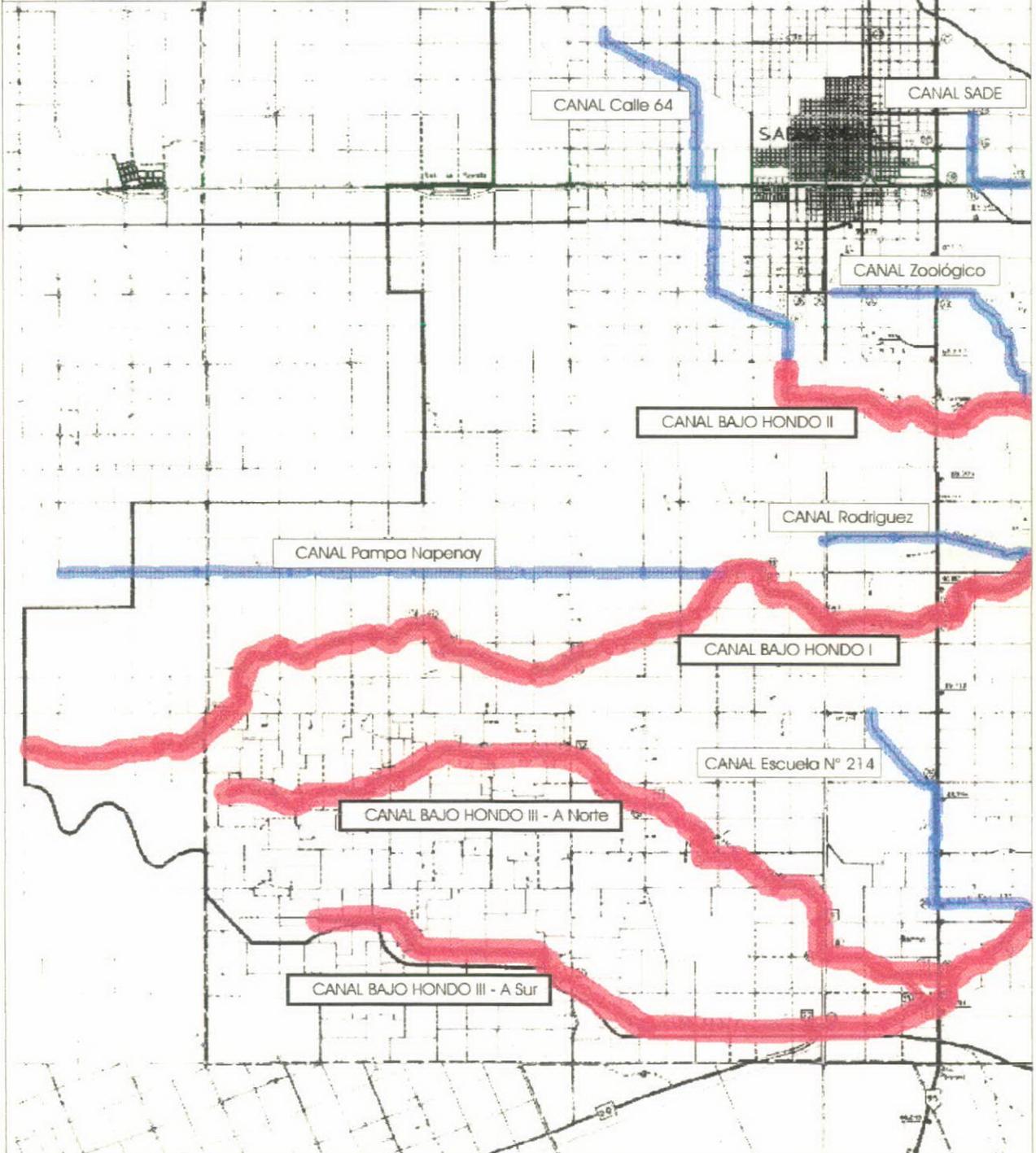
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RED PRIMARIA Y SECUNDARIA  
AREA TAPENAGA

Fecha: Abril - 1997

Escala = 1:165.000

● RED PRIMARIA      ● RED SECUNDARIA



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**Programa MASAPA - Provincia del CHACO**

TEMA: Relevamiento y Actualización de Datos e Información Hidrológica

Consultor: Ing. Luis Héctor MARTINEZ

Lámina N° 14

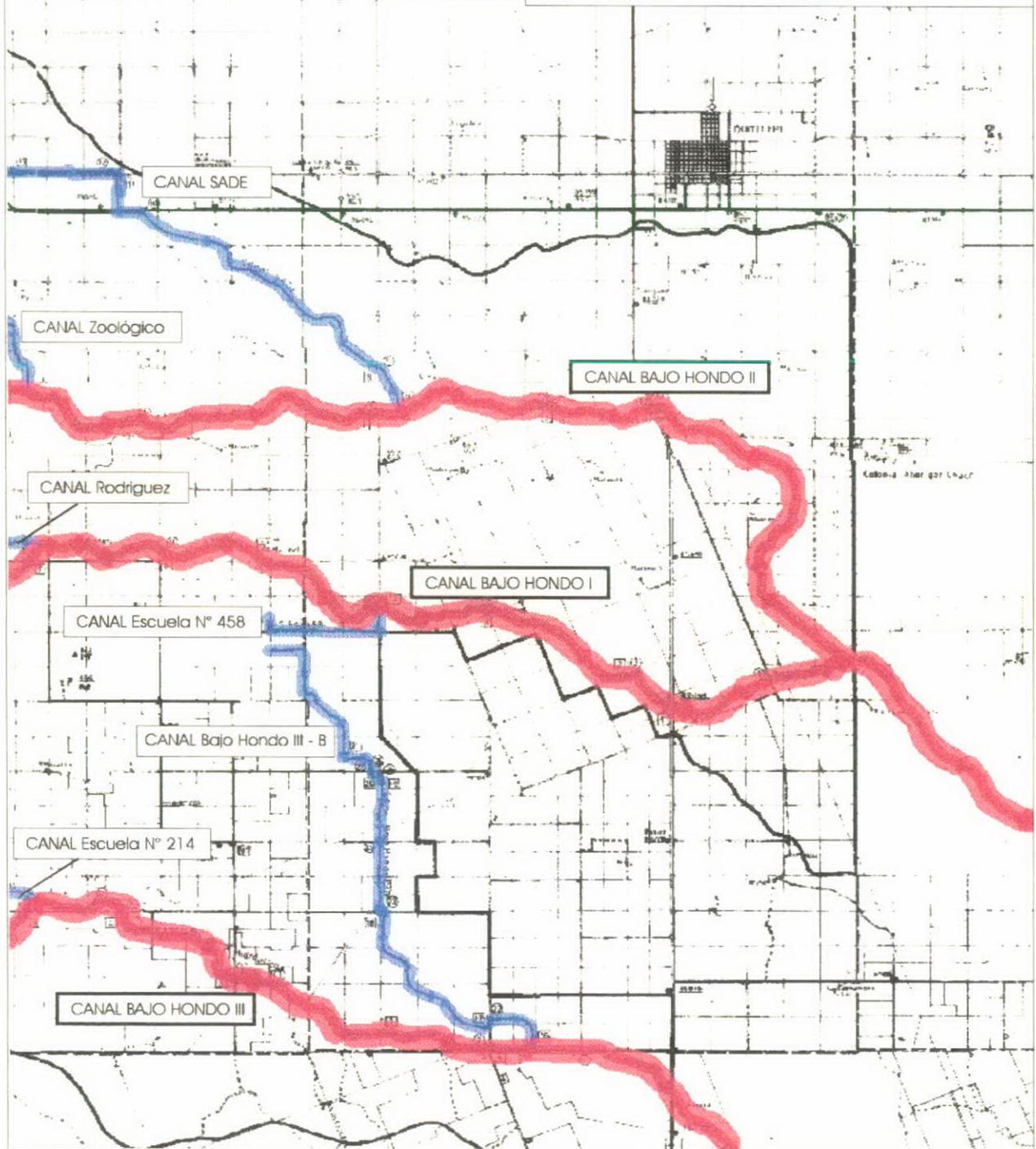
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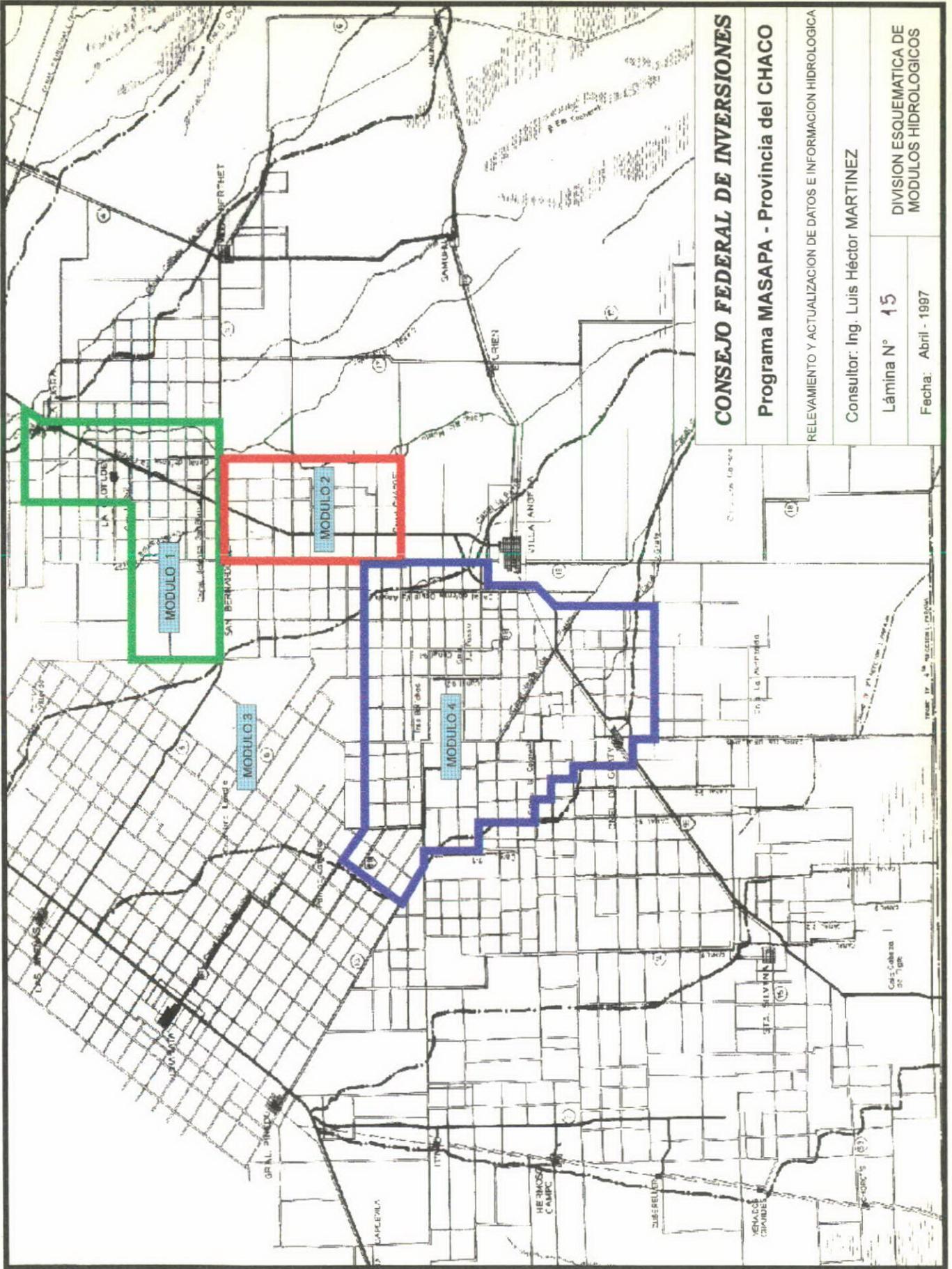
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Escala = 1:165.000

● RED PRIMARIA

● RED SECUNDARIA





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**Programa MASAPA - Provincia del CHACO**

RELEVAMIENTO Y ACTUALIZACION DE DATOS E INFORMACION HIDROLOGICA

Consultor: Ing. Luis Héctor MARTINEZ

Lámina N° 15

Fecha: Abril - 1997

DIVISION ESQUEMATICA DE  
MODULOS HIDROLOGICOS

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**Programa MASAPA - Provincia del CHACO**

RELEVAMIENTO Y ACTUALIZACIÓN DE DATOS E INFORMACIÓN HIDROLÓGICA

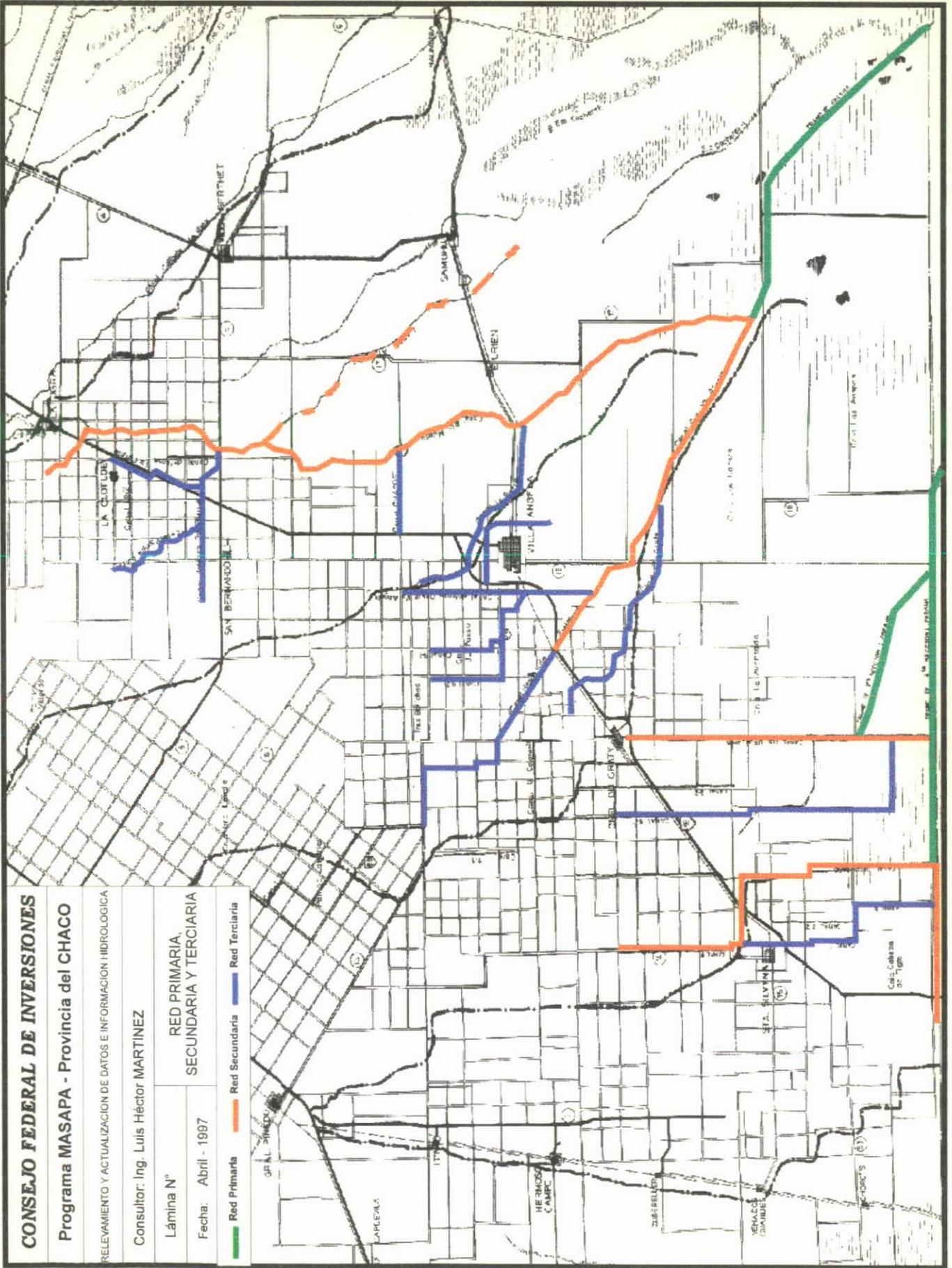
Consultor: Ing. Luis Héctor MARTINEZ

Lámina N°  
RED PRIMARIA  
SECUNDARIA Y TERCIARIA

Fecha: Abril - 1987

Red Primaria    Red Secundaria    Red Terciaria

Red Terciaria



**CONSEJO FEDERAL DE INVERSIONES**

**Programa MASAPA - Provincia del CHACO**

Relevamiento y Actualización de Datos e Información Hidrológica

Consultor: Ing. Luis Héctor MARTINEZ

Lámina N°

Cuenca Area Piloto  
Río Muerto

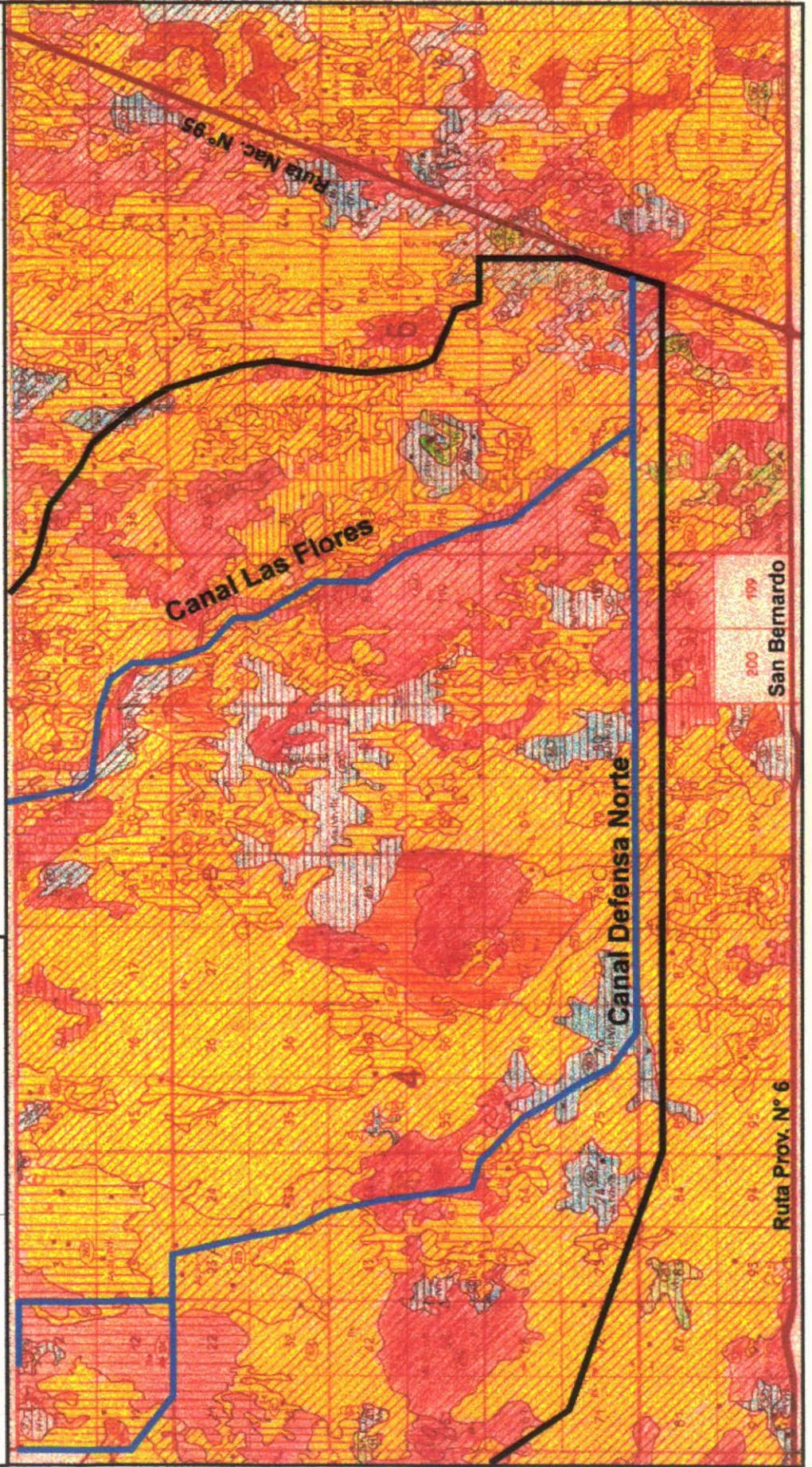
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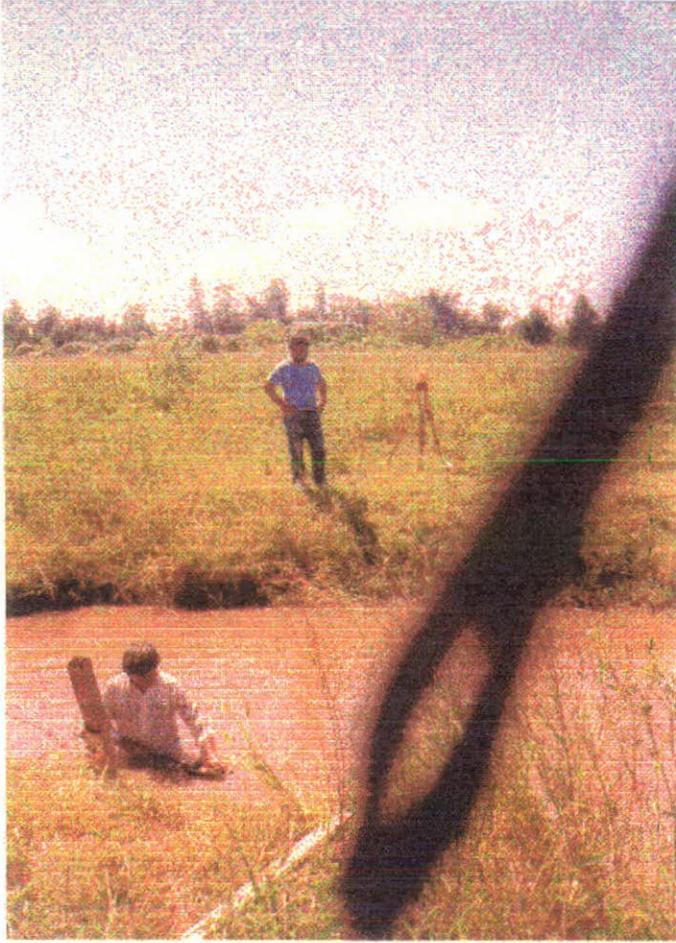
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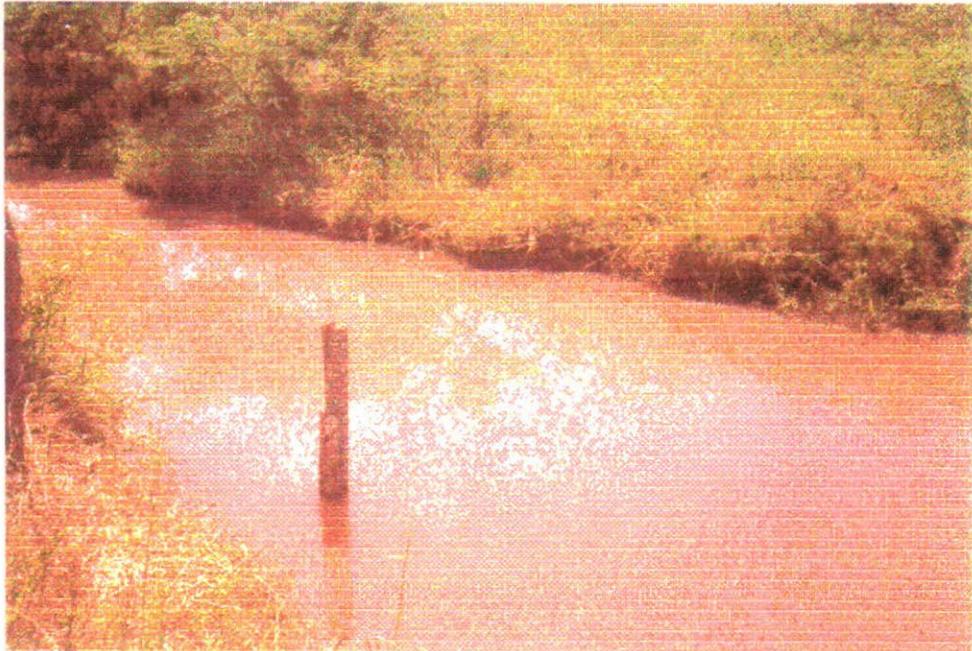
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- Clase III: Agricultura con limitaciones o riesgos moderados.
- Clase IV: Agricultura con limitaciones o riesgos severos.
- Clase V: No apta para agricultura. Pastura permanente.
- Clase VI: Limitaciones moderadas para pasturas permanentes.
- Clase VII: Limitaciones severas. Pastoreo extensivo.



## ANEXO FOTOGRAFIAS



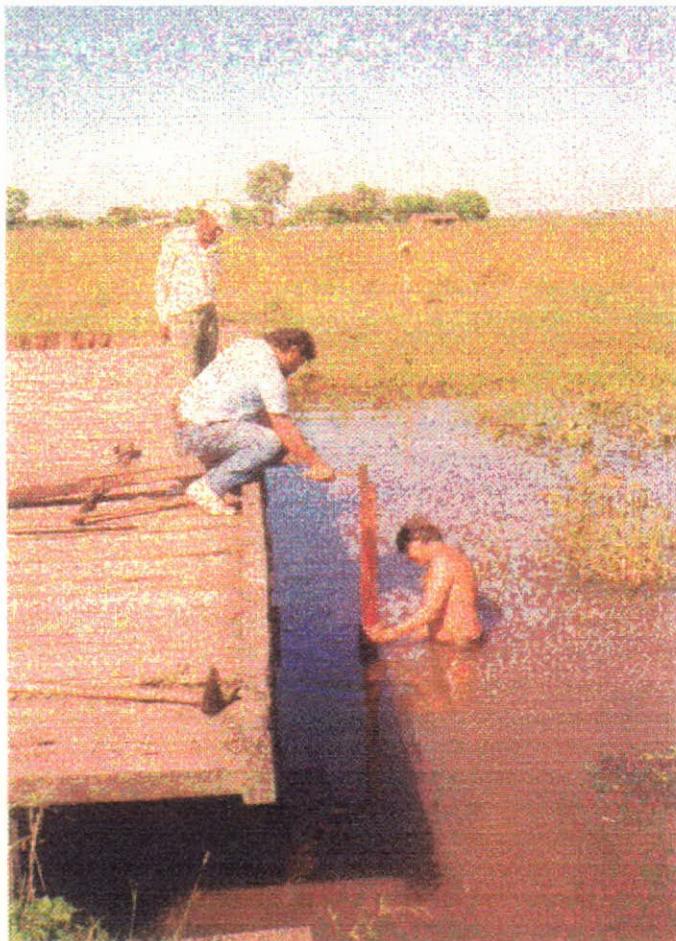
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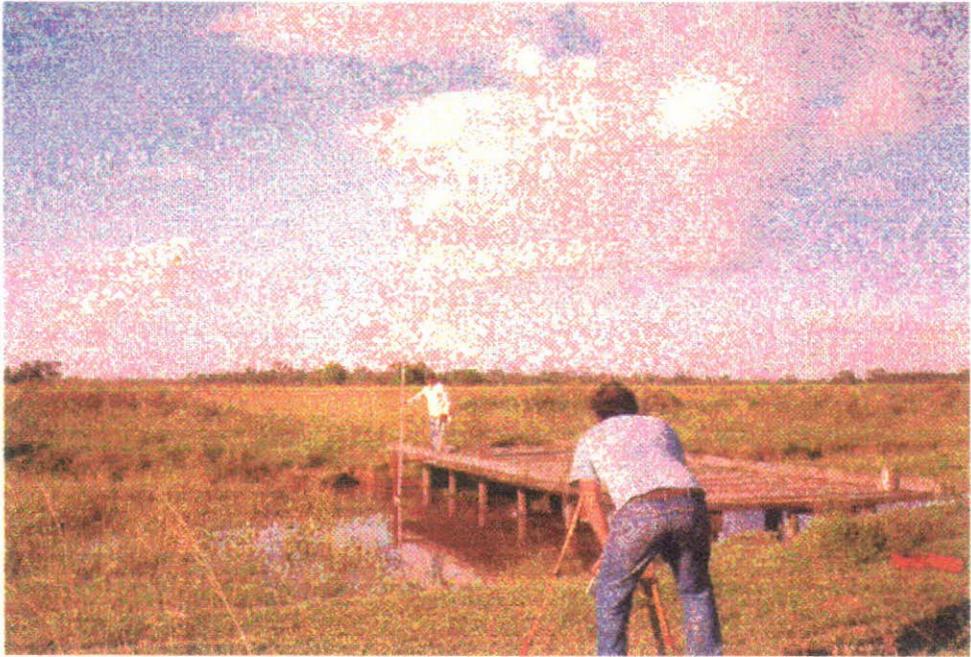
Fotografía N° 2



Fotografía N° 3



Fotografía N° 4



Fotografía N° 5



Fotografía N° 6



Fotografía N° 7



Fotografía N° 8



Fotografía N° 9



Fotografía N° 10



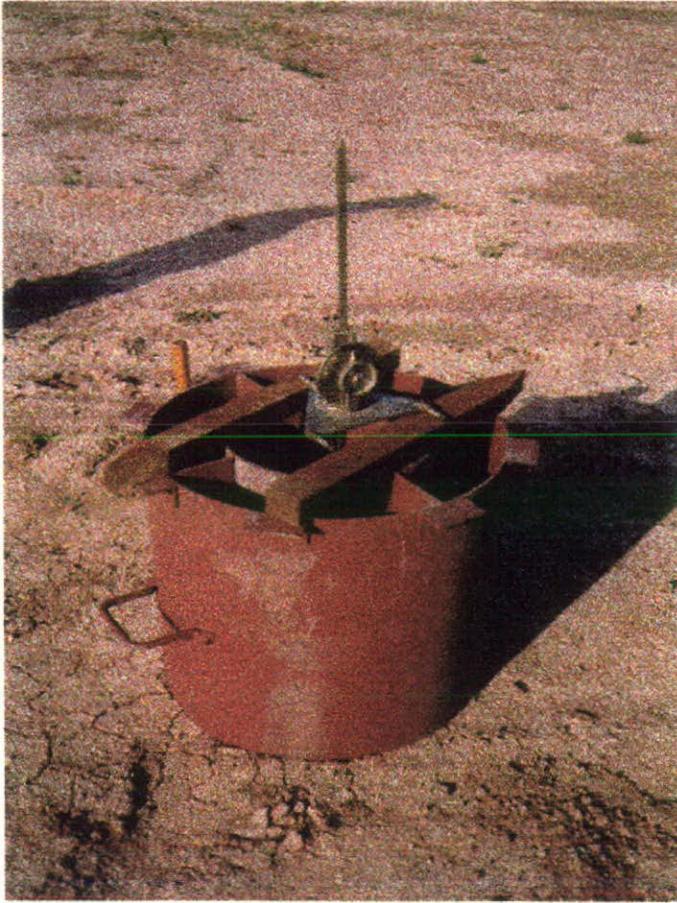
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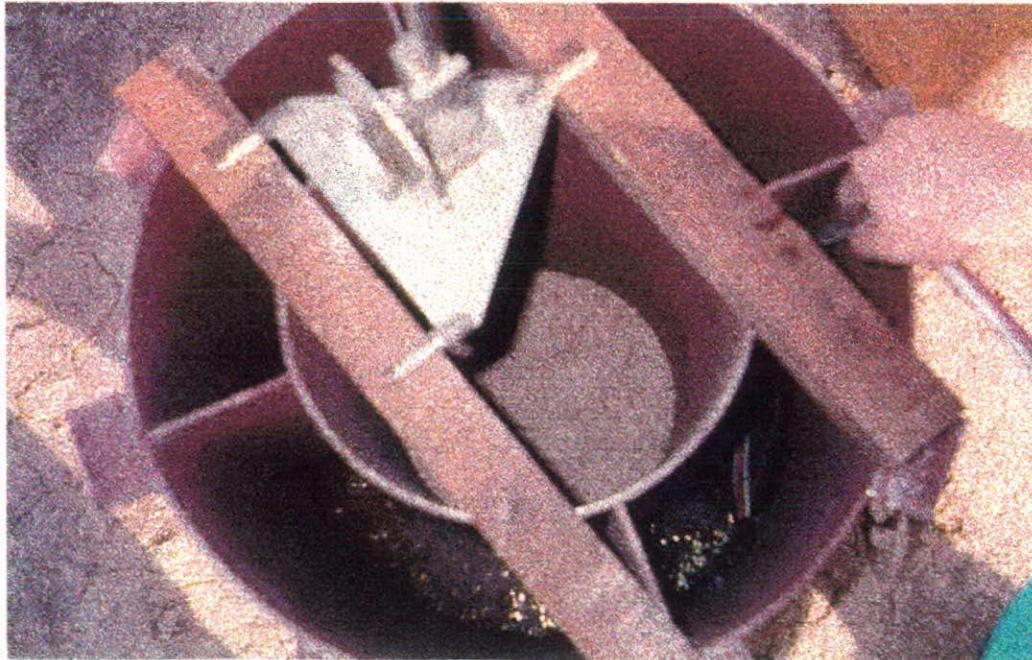
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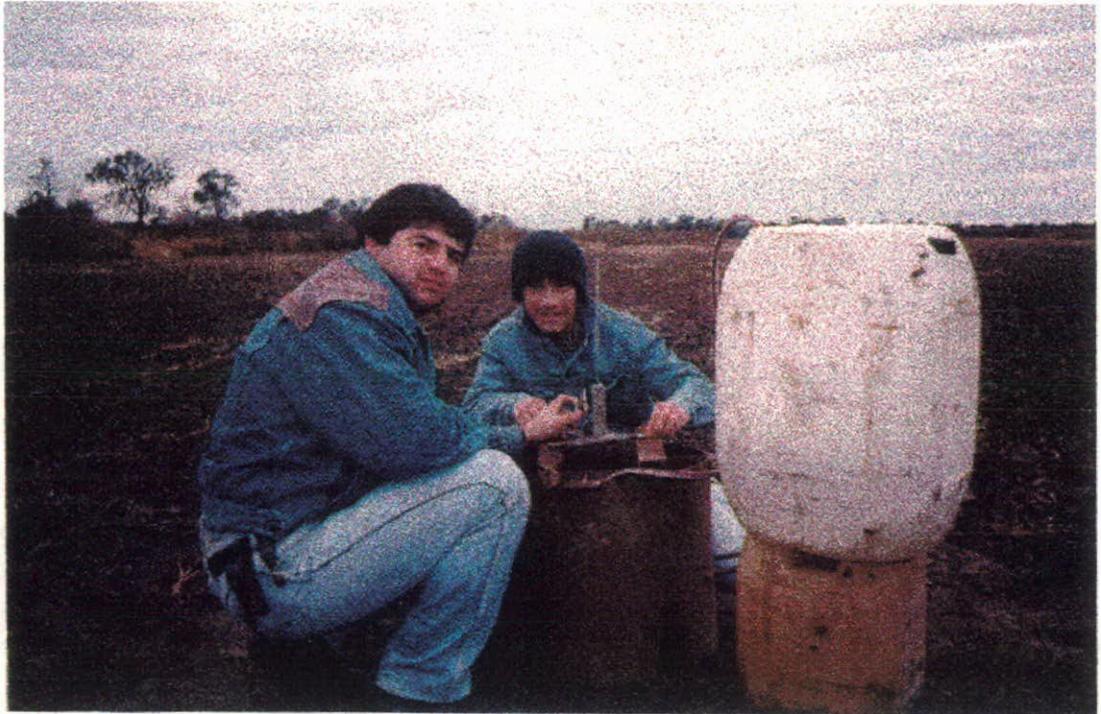
Fotografía N° 14



Fotografía N° 15



Fotografía N° 16



Fotografía N° 17

## **ANEXO CORRIDAS**

ESTUDIO ESTADISTICO DE : PRECIPITACIONES MAXIMAS MEDIAS MENSUALES.

SERIE DE CALCULO : PMAX

ESTACION : SISTEMA TAPENAGA

ANO INICIAL : 1965 ANO FINAL : 1992

CANTIDAD DE VALORES : 28

ESTADISTICOS :

VARIABLE ORIGINAL (X) :

MEDIA	DESVIO	COEF. ASIMETRIA	COEF. VARIACION	COEF. ASIM/VARI	COEF. CURTOSIS
237.9	73.25	.45	.3079	1.45	1.63

MOMENTOS PONDERADOS:

MW1	MW2	MW3	MW4	MGEV1	MGEV2	MG1
97.56	58.97	41.69	32.00	140.36	101.77	98.09

VALORES EXTREMOS :

INDICES :

MAXIMO	MINIMO	RANGO	MAXIMA	MINIMA	MIN-MAX	MAX-MIN
364.	137.	227.	1.530	.576.	.376	2.657

VARIABLE TRANSFORMADA (LN(X)) :

MEDIA	DESVIO	COEF. ASIM.
5.42673	.30602	.11986

ESTIMADORES DE LOS PARAMETROS :

DISTRIBUCION P A R A M E T R O S

LOGGAUSS: Xm= .237928600E+03 S= .732504200E+02

GUMBEL: AG= .602191900E+02 GM= .203170100E+03

GEV : AGEV= .635840400E+02 UGEV= .203226800E+03 G= .327100900E-01

PEARSON: MEDP= .237928600E+03 DESP= .8354355E+02 SKEW= .158188800E+01

LOGPEARSON: UY= -.4523293E-01 DESLP= .30070100E+00 ASILP= .493585600E-02

EXPONENCIAL: Xm= .237928600E+03 S= .732504200E+02

VALORES DE LA VARIABLE PARA DISTINTAS PROBABILIDADES

PROB.	LOGGAUSS	GUMBEL	GEV	PEARSON	LOGPEARSON	EXPONENC.
.2000	292.9	293.5	296.3	294.6	292.9	282.6
.1428	313.6	315.8	318.6	319.5	312.6	307.2
.1000	334.4	338.7	341.2	349.0	334.4	333.3
.0833	344.8	350.2	352.5	361.9	344.2	346.7
.0666	357.3	364.2	366.1	379.1	356.8	363.1
.0050	493.6	522.1	512.4	570.1	494.1	552.8

PROBABILIDADES PARA DISTINTOS VALORES DE LA VARIABLE

VAR	ANO	FREC.	FREC. EXP	LOG GAUSS	GUMBEL	GEV	PEARSON	LOG- PEARSON
364.	1973	.0179	.0590	.0669	.0689	.0821	.0590	.0658
351.	1983	.0536	.0746	.0823	.0853	.0974	.0746	.0786
346.	1990	.0893	.0815	.0891	.0925	.1040	.0816	.0841
343.	1986	.1250	.0860	.0934	.0971	.1080	.0860	.0876
339.	1975	.1607	.0923	.0995	.1035	.1137	.0923	.0926
334.	1991	.1964	.1007	.1076	.1121	.1212	.1007	.0991
325.	1988	.2321	.1177	.1239	.1292	.1360	.1178	.1121
297.	1984	.2679	.1874	.1898	.1979	.1940	.1873	.1642
287.	1966	.3036	.2196	.2201	.2290	.2197	.2195	.1883
281.	1985	.3393	.2409	.2401	.2495	.2365	.2408	.2043
245.	1981	.3750	.4021	.3930	.4023	.3640	.4018	.3340
223.	1967	.4107	.5259	.5130	.5188	.4676	.5256	.4510
218.	1971	.4464	.5558	.5424	.5470	.4941	.5555	.4829
212.	1972	.4821	.5921	.5784	.5814	.5273	.5919	.5241
205.	1989	.5179	.6348	.6209	.6219	.5681	.6346	.5767
200.	1976	.5536	.6652	.6515	.6508	.5984	.6650	.6174
199.	1974	.5893	.6712	.6576	.6565	.6046	.6711	.6259
198.	1965	.6250	.6772	.6637	.6623	.6108	.6771	.6345
198.	1980	.6607	.6772	.6637	.6623	.6108	.6771	.6345
195.	1987	.6964	.6952	.6819	.6795	.6298	.6952	.6610
192.	1968	.7321	.7130	.7000	.6965	.6490	.7130	.6887
189.	1992	.7679	.7306	.7178	.7134	.6685	.7305	.7175
173.	1978	.8036	.8182	.8080	.7987	.7763	.8183	.8926
164.	1979	.8393	.8613	.8529	.8415	.8378	.8613	.9999
160.	1970	.8750	.8786	.8710	.8590	.8646	.8787	.9999
145.	1982	.9107	.9326	.9277	.9150	.9554	.9328	.9999
142.	1977	.9464	.9412	.9368	.9243	.9702	.9414	.9999
137.	1969	.9821	.9539	.9502	.9383	.9902	.9542	.9999

BONDAD DE AJUSTE

	LOGGAUSS	GUMBEL	GEV	PEARSON	LOGPEARSON
KOLMOGOROFF:	AAA	AAA	AAA	AAA	AAA
CHI CUADRADO:	---	---	---	---	---
ECMF :	.0685	.0631	.0626	.0556	.0685
ECMV :	21.82	23.64	23.09	28.44	21.90

SIMBOLOGIA PARA LA BONDAD DEL AJUSTE :

A: SE ACEPTA LA HIPOTESIS.

R : SE RECHAZA LA HIPOTESIS.

SE CONSIDERAN 3 NIVELES DE SIGNIFICACION: 5, 1.Y 0.1 % DE ACUERDO A SU UBICACION DE IZQUIERDA A DERECHA EN EL CARACTER DE CALIFICACION.

--- : EL NUMERO DE INTERVALOS DE CLASE RESULTANTE EN EL TEST DEL CHI-CUADRADO ES MENOR QUE 5

ESTUDIO ESTADISTICO DE : CAUDALES MAXIMOS MENSUALES  
 SERIE DE CALCULO : QMAX  
 ESTACION : RIO TAPENAGA - RUTA 89  
 AÑO INICIAL : 1974 AÑO FINAL : 1992  
 CANTIDAD DE VALORES : 19

## ESTADISTICOS :

VARIABLE ORIGINAL (X) :

MEDIA	DESVIO	COEF. ASIMETRIA	COEF. VARIACION	COEF. ASIM/VARI	COEF. CURTOSIS
24.4	20.05	.37	.8231	.45	1.55

## MOMENTOS PONDERADOS:

MW1	MW2	MW3	MW4	MGEV1	MGEV2	MG1
6.49	2.73	1.42	.85	17.87	14.11	6.38

## VALORES EXTREMOS :

## INDICES :

MAXIMO	MINIMO	RANGO	MAXIMA	MINIMA	MIN-MAX	MAX-MIN
62.	1.	61.	2.537	.041	.016	61.800

## VARIABLE TRANSFORMADA (LN(X)) :

MEDIA	DESVIO	COEF. ASIM.
2.62379	1.30503	-.68096

## ESTIMADORES DE LOS PARAMETROS :

DISTRIBUCION P A R A M E T R O S

LOGGAUSS: Xm= .243631600E+02 S= .200530200E+02

GUMBEL: AG= .167437000E+02 GM= .146986900E+02

GEV : AGEV= .16713420E+02 UGEV= .150367200E+02 G= .196944400E-01

PEARSON: MEDP= .2436316E+02 DESP= .2005302E+02 SKEW= .3707848E+00

LOGPEARSON: UY= -.5692840E+00 DESLP= .1379056E+01 ASILP= -.1548688E+01

EXPONENCIAL: Xm= .243631600E+02 S= .200530200E+02

## VALORES DE LA VARIABLE PARA DISTINTAS PROBABILIDADES

PROB.	LOG GAUSS	GUMBEL	GEV	PEARSON	LOG PEARSON	EXPONENC.
.0010	173.5	130.4	123.0	97.0	80.1	142.8
.0050	119.9	103.4	99.1	83.0	77.2	110.6
.0100	100.2	91.7	88.5	76.4	74.9	96.7
.0200	82.4	80.0	77.8	69.4	71.3	82.8
.1000	47.3	52.4	51.8	50.7	55.2	50.5
.2000	34.5	39.8	39.7	40.8	42.8	36.6
.3000	27.4	32.0	32.1	33.9	33.4	28.5
.4000	22.6	25.9	26.2	28.3	25.8	22.7
.5000	18.8	20.8	21.1	23.1	19.4	18.2
.6000	15.7	16.2	16.5	18.2	13.9	14.6

PROBABILIDADES PARA DISTINTOS VALORES DE LA VARIABLE

VAR.	ANO	FREC. EXP	FREC.	LOG GAUSS	GUMBEL	GEV	PEARSON	LOG- PEARSON
62.	1986	.0263	.0491	.0583	.0547	.0403	.0608	.0569
52.	1984	.0789	.0803	.1045	.1014	.0936	.1256	.0946
52.	1990	.1316	.0807	.1051	.1020	.0943	.1263	.0951
46.	1983	.1842	.1091	.1461	.1438	.1453	.1743	.1276
40.	1981	.2368	.1503	.2023	.2015	.2154	.2314	.1721
39.	1985	.2895	.1537	.2066	.2060	.2209	.2355	.1755
37.	1989	.3421	.1754	.2344	.2346	.2550	.2612	.1979
36.	1991	.3947	.1804	.2406	.2410	.2625	.2667	.2029
22.	1975	.4474	.4213	.4823	.4884	.5287	.4618	.4201
18.	1974	.5000	.5153	.5536	.5606	.5972	.5186	.4978
17.	1987	.5526	.5527	.5795	.5868	.6211	.5399	.5285
17.	1992	.6053	.5592	.5839	.5911	.6251	.5435	.5337
9.	1982	.6579	.8546	.7588	.7655	.7745	.7115	.7994
5.	1988	.7105	.9631	.8286	.8339	.8303	.8050	.9566
4.	1980	.7632	.9857	.8513	.8561	.8483	.8436	.9999
4.	1977	.8158	.9881	.8547	.8594	.8509	.8499	.9999
2.	1979	.8684	.9991	.8817	.8857	.8726	.9073	.9999
2.	1978	.9211	.9993	.8832	.8871	.8738	.9110	.9999
1.	1976	.9737	1.0000	.8963	.8998	.8845	.9469	.9999

BONDAD DE AJUSTE

	LOGGAUSS	GUMBEL	GEV	PEARSON	LOGPEARSON
KOLMOGOROFF:	AAA	AAA	AAA	AAA	AAA
CHI CUADRADO:	---	---	---	---	---
ECMF :	.1292	.0701	.0719	.0730	.0541
ECMV :	7.75	5.71	5.49	5.25	4.14

SIMBOLOGIA PARA LA BONDAD DEL AJUSTE :

A: SE ACEPTA LA HIPOTESIS.

R : SE RECHAZA LA HIPOTESIS.

SE CONSIDERAN 3 NIVELES DE SIGNIFICACION: 5, 1 Y 0.1 % DE ACUERDO A SU UBICACION DE IZQUIERDA A DERECHA EN EL CARACTER DE CALIFICACION.

--- : EL NUMERO DE INTERVALOS DE CLASE RESULTANTE EN EL TEST DEL CHI-CUADRADO ES MENOR QUE 5

ESTUDIO ESTADISTICO DE : MAXIMOS 30 DIAS  
 SERIE DE CALCULO : PMAX  
 ESTACION : SISTEMA PARANA  
 AÑO INICIAL : 1961 AÑO FINAL : 1992  
 CANTIDAD DE VALORES : 32

## ESTADISTICOS :

## VARIABLE ORIGINAL (X) :

MEDIA	DESVIO	COEF. ASIMETRIA	COEF. VARIACION	COEF. ASIM/VARI	COEF. CURTOSIS
293.9	88.02	1.20	.2995	4.02	3.85

## MOMENTOS PONDERADOS:

MW1	MW2	MW3	MW4	MGEV1	MGEV2	MG1
122.32	75.38	54.00	41.87	171.58	124.64	122.95

## VALORES EXTREMOS :

## INDICES.:

MAXIMO	MINIMO	RANGO	MAXIMA	MINIMA	MIN-MAX	MAX-MIN
565.	180.	385.	1.922	.612	.319	3.139

## VARIABLE TRANSFORMADA (LN(X)) :

MEDIA	DESVIO	COEF.ASIM.
5.64446	.27654	.58471

## ESTIMADORES DE LOS PARAMETROS :

## DISTRIBUCION P A R A M E T R O S

LOGGAUSS: Xm= .293906300E+03 S= .880221300E+02

GUMBEL: AG= .692595700E+02 GM= .253929600E+03

GEV : AGEV= .627258900E+02 UGEV= .249235500E+03 G=-.121008400E+00

PEARSON: MEDP= .293906300E+03 DESP= .886363800E+02 SKEW= .148895800E+01

LOGPEARSON: UY= -.387953200E-01. DESLP= .271819400E+00 ASILP= .523759900E+00

EXPONENCIAL: Xm= .293906300E+03 S= .880221300E+02

WAKEBY: A= .141127600E+00 B= .313000000E+01 C= .106636400E+04

D= .275144700E-03 M= .599558500E+00

## VALORES DE LA VARIABLE PARA DISTINTAS PROBABILIDADES.

PROB.	LOGGAUSS	GUMBEL	GEV	PEARSON	LOGP.	EXP.	WAKEBY
.5000	281.6	279.3	272.7	272.8	276.1	266.9	272.7
.2000	360.3	357.8	352.4	355.3	352.0	347.6	356.3
.1428	385.0	383.5	380.9	381.4	376.6	377.2	385.5
.1000	409.9	409.8	411.5	412.1	405.2	408.6	416.3
.0666	437.2	439.2	447.3	443.4	435.6	444.3	451.4
.0500	455.9	459.6	473.4	466.7	458.6	469.6	476.1

PROBABILIDADES PARA DISTINTOS VALORES DE LA VARIABLE

CORRIDA Nº 3  
Continuación

F R E C U E N C I A S

VAR.	ANO	FREC.EXP	LOGGAUSS	GUMBEL	GEV	PEARSON	LOGPEARSON	EXPO.	WAKEBY
565.	1986	.0156	.0087	.0111	.0194	.0137	.0133	.0169	.0000
467.	1984	.0469	.0421	.0451	.0536	.0498	.0449	.0515	.0000
427.	1981	.0781	.0777	.0789	.0837	.0829	.0753	.0811	.0000
398.	1974	.1094	.1188	.1174	.1169	.1190	.1100	.1127	.0000
373.	1985	.1406	.1686	.1641	.1567	.1616	.1526	.1498	.0000
365.	1989	.1719	.1879	.1822	.1722	.1780	.1692	.1640	.0000
359.	1983	.2031	.2035	.1970	.1849	.1913	.1828	.1756	.0000
358.	1973	.2344	.2062	.1995	.1871	.1936	.1852	.1776	.0000
349.	1991	.2656	.2319	.2239	.2082	.2153	.2079	.1967	.0000
343.	1972	.2969	.2503	.2415	.2236	.2310	.2246	.2106	.0000
333.	1966	.3281	.2834	.2733	.2517	.2594	.2549	.2359	.0000
312.	1961	.3594	.3630	.3510	.3222	.3291	.3306	.2995	.0000
298.	1977	.3906	.4232	.4109	.3785	.3838	.3907	.3512	.0000
291.	1980	.4219	.4552	.4432	.4097	.4138	.4237	.3802	.0000
273.	1971	.4531	.5419	.5320	.4986	.4989	.5170	.4665	.0000
268.	1988	.4844	.5668	.5579	.5254	.5246	.5448	.4938	.0000
262.	1976	.5156	.5970	.5893	.5586	.5566	.5790	.5286	.0000
256.	1964	.5469	.6273	.6211	.5928	.5897	.6139	.5659	.0000
252.	1969	.5781	.6474	.6424	.6160	.6124	.6375	.5922	.0000
244.	1967	.6094	.6874	.6847	.6629	.6590	.6849	.6485	.0000
243.	1979	.6406	.6923	.6899	.6689	.6649	.6908	.6560	.0000
242.	1962	.6719	.6972	.6952	.6748	.6709	.6967	.6634	.0000
237.	1990	.7031	.7216	.7211	.7042	.7008	.7261	.7022	.0000
230.	1992	.7344	.7549	.7565	.7451	.7434	.7664	.7604	.0000
221.	1987	.7656	.7957	.7999	.7958	.7982	.8160	.8422	.0000
215.	1975	.7969	.8212	.8270	.8278	.8343	.8467	.9016	.0000
212.	1963	.8281	.8335	.8399	.8430	.8520	.8613	.9329	.0000
211.	1965	.8594	.8375	.8441	.8480	.8578	.8660	.9435	.0000
210.	1978	.8906	.8414	.8483	.8529	.8635	.8707	.9543	.0000
208.	1968	.9219	.8492	.8564	.8625	.8749	.8798	.9762	.0000
203.	1982	.9531	.8678	.8758	.8852	.9023	.9014	.9999	.0000
180.	1970	.9844	.9365	.9454	.9620	.9943	.9712	.9999	.0000

BONDAD DE AJUSTE

	LOGGAUSS	GUMBEL	GEV	PEARSON	LOGPEARSON	EXPONENC.	WAKEBY
KOLMOGOROFF:	AAA	AAA	AAA	AAA	AAA	AAA	
CHI CUADRADO:	AAA	AAA	AAA	AAA	AAA	AAA	
ECMF :	.0473	.0443	.0372	.0332	.0430	.0499	.0000
ECMV :	14.39	12.40	11.40	9.05	10.60	12.65	10.26

SIMBOLOGIA PARA LA BONDAD DEL AJUSTE :

A: SE ACEPTA LA HIPOTESIS.

R : SE RECHAZA LA HIPOTESIS.

SE CONSIDERAN 3 NIVELES DE SIGNIFICACION: 5, 1 Y 0.1 % DE ACUERDO A SU UBICACION DE IZQUIERDA A DERECHA EN EL CARACTER DE CALIFICACION.

--- : EL NUMERO DE INTERVALOS DE CLASE RESULTANTE EN EL TEST DEL CHI-CUADRADO ES MENOR QUE 5

20/09/96  
08:52:26

DATOS GENERALES

NOMBRE DEL MODULO = SAENZ PEÑA  
 AREA DEL MODULO [Has.] = 138,500  
 FECHA DE INICIO DE LA EVALUACION = 01/11/83  
 FECHA DE FINALIZACION DE LA EVALUACION = 31/05/84  
 NUMERO DE CORRIDA = 3

DATOS DEL SUELO

CAPACIDAD DE CAMPO EN mm = 411  
 MARCHITEZ PERMANENTE EN mm = 178  
 CAPACIDAD DE ALMACENAMIENTO MAXIMO EN mm = 571  
 HUMEDAD DE SUELO INICIAL EN mm = 246  
 PERCOLACION MAXIMA DEL SUELO EN mm/dia = 2.000  
 INFILTRACION DE BASE mm/hs = 0.300  
 INFILTRACION MAXIMA mm/hs = 30.000  
 VOLUMEN MAXIMO SUPERFICIAL Hm3 = 10.400

DATOS DE LA CURVA AREA-VOLUMEN

COEFICIENTE K1 DE LA PRIMERA CURVA = 590.000  
 COEFICIENTE N1 DE LA PRIMERA CURVA = 1.060  
 COEFICIENTE H01 DE LA PRIMERA CURVA = 0.000  
 COEFICIENTE K2 DE LA SEGUNDA CURVA = 2720.000  
 COEFICIENTE N2 DE LA SEGUNDA CURVA = 0.715  
 COEFICIENTE H02 DE LA SEGUNDA CURVA = 0.000  
 VOLUMEN PARA EL CUAL SE PRODUCE EL CAMBIO DE CURVA = 84.500

DATOS DE AJUSTE DEL MODELO

COEF. DE LA FORMULA DE HORTON KI = 0.400  
 COEF. PARA EL CALCULO DE INF. INICIAL K = 0.007  
 COEF. DE ESCORRENTIA Ces1 para nivel de Inundacion 1 = 0.020  
 COEF. DE ESCORRENTIA Ces2 para nivel de Inundacion 2 = 0.000  
 COEF. DE ESCORRENTIA Ces3 para nivel de Inundacion 3 = 0.000  
 COEF. DE ESCORRENTIA Ces4 para nivel de Inundacion 4 = 0.000  
 COEF. DE ESCORRENTIA Ces5 para nivel de Inundacion 5 = 0.000  
 Volumen en Hm3 para nivel de Inundacion 1 = 500.000  
 Volumen en Hm3 para nivel de Inundacion 2 = 0.000  
 Volumen en Hm3 para nivel de Inundacion 3 = 0.000  
 Volumen en Hm3 para nivel de Inundacion 4 = 0.000  
 Volumen en Hm3 para nivel de Inundacion 5 = 0.000  
 Volumen en Hm3 para nivel de Inundacion 6 = 0.000  
 CAPACIDAD DE CONDUCCION DEL CANAL de SALIDA [m3/seg]. = 0.000

FECHA	PRECI	EVAP	SUE	INF	QING	PERC	VOLSUP	QNAT	QSAL	QCAN	AREA	AREA
	mm	mm	mm	mm	m3/s	mm	Hm3	m3/s	m3/s	m3/s	INUN	Ha
												INUN %
01/11/83	0	2.70	243.3	0.00	0	0.00	0.00	0	0.00	0	0	0.00
02/11/83	3	2.70	243.6	0.30	0	0.00	0.00	0	0.00	0	0	0.00
03/11/83	0	2.70	240.9	0.00	0	0.00	0.00	0	0.00	0	0	0.00
04/11/83	0	2.70	238.2	0.00	0	0.00	0.00	0	0.00	0	0	0.00
05/11/83	0	2.70	235.5	0.00	0	0.00	0.00	0	0.00	0	0	0.00

06/11/83	0	2.70	232.8	0.00	0	0.00	0.00	0	0.00	0	0	0.00
07/11/83	25	2.70	255.1	22.30	0	0.00	0.00	0	0.00	0	0	0.00
08/11/83	0	2.70	252.4	0.00	0	0.00	0.00	0	0.00	0	0	0.00
09/11/83	0	2.70	249.7	0.00	0	0.00	0.00	0	0.00	0	0	0.00
10/11/83	19	2.70	266.0	16.30	0	0.00	0.00	0	0.00	0	0	0.00
11/11/83	0	2.70	263.3	0.00	0	0.00	0.00	0	0.00	0	0	0.00
12/11/83	18	2.70	278.6	15.30	0	0.00	0.00	0	0.00	0	0	0.00
13/11/83	0	2.70	275.9	0.00	0	0.00	0.00	0	0.00	0	0	0.00
14/11/83	0	2.70	273.2	0.00	0	0.00	0.00	0	0.00	0	0	0.00
15/11/83	0	2.70	270.5	0.00	0	0.00	0.00	0	0.00	0	0	0.00
16/11/83	0	2.70	267.8	0.00	0	0.00	0.00	0	0.00	0	0	0.00
17/11/83	0	2.70	265.1	0.00	0	0.00	0.00	0	0.00	0	0	0.00
18/11/83	6	2.70	268.4	3.30	0	0.00	0.00	0	0.00	0	0	0.00
19/11/83	0	2.70	265.7	0.00	0	0.00	0.00	0	0.00	0	0	0.00
20/11/83	0	2.70	263.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
21/11/83	9	2.70	269.3	6.30	0	0.00	0.00	0	0.00	0	0	0.00
22/11/83	1	2.70	267.6	0.00	0	0.00	0.00	0	0.00	0	0	0.00
23/11/83	0	2.70	264.9	0.00	0	0.00	0.00	0	0.00	0	0	0.00
24/11/83	0	2.70	262.2	0.00	0	0.00	0.00	0	0.00	0	0	0.00
25/11/83	0	2.70	259.5	0.00	0	0.00	0.00	0	0.00	0	0	0.00
26/11/83	0	2.70	256.8	0.00	0	0.00	0.00	0	0.00	0	0	0.00
27/11/83	0	2.70	254.1	0.00	0	0.00	0.00	0	0.00	0	0	0.00
28/11/83	0	2.70	251.4	0.00	0	0.00	0.00	0	0.00	0	0	0.00
29/11/83	2	2.70	250.7	0.00	0	0.00	0.00	0	0.00	0	0	0.00
30/11/83	0	2.70	248.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
01/12/83	11	3.00	256.0	8.00	0	0.00	0.00	0	0.00	0	0	0.00
02/12/83	10	3.00	263.0	7.00	0	0.00	0.00	0	0.00	0	0	0.00
03/12/83	0	3.00	260.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
04/12/83	2	3.00	259.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
05/12/83	0	3.00	256.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
06/12/83	0	3.00	253.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
07/12/83	0	3.00	250.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
08/12/83	0	3.00	247.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
09/12/83	0	3.00	244.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
10/12/83	0	3.00	241.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
11/12/83	1	3.00	239.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
12/12/83	0	3.00	236.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
13/12/83	0	3.00	233.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
14/12/83	0	3.00	230.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
15/12/83	0	3.00	227.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
16/12/83	11	3.00	235.0	8.00	0	0.00	0.00	0	0.00	0	0	0.00
17/12/83	2	3.00	234.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
18/12/83	0	3.00	231.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
19/12/83	2	3.00	230.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
20/12/83	0	3.00	227.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
21/12/83	11	3.00	235.0	8.00	0	0.00	0.00	0	0.00	0	0	0.00
22/12/83	0	3.00	232.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
23/12/83	0	3.00	229.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
24/12/83	0	3.00	226.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
25/12/83	0	3.00	223.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
26/12/83	0	3.00	220.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
27/12/83	0	3.00	217.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
28/12/83	0	3.00	214.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
29/12/83	7	3.00	218.0	4.00	0	0.00	0.00	0	0.00	0	0	0.00
30/12/83	2	3.00	217.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
31/12/83	0	3.00	214.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
01/01/84	45	3.80	255.2	41.20	0	0.00	0.00	0	0.00	0	0	0.00
02/01/84	0	3.80	251.4	0.00	0	0.00	0.00	0	0.00	0	0	0.00
03/01/84	0	3.80	247.6	0.00	0	0.00	0.00	0	0.00	0	0	0.00
04/01/84	1	3.80	244.8	0.00	0	0.00	0.00	0	0.00	0	0	0.00

05/01/84	0	3.80	241.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
06/01/84	0	3.80	237.2	0.00	0	0.00	0.00	0	0.00	0	0	0.00
07/01/84	0	3.80	233.4	0.00	0	0.00	0.00	0	0.00	0	0	0.00
08/01/84	0	3.80	229.6	0.00	0	0.00	0.00	0	0.00	0	0	0.00
09/01/84	0	3.80	225.8	0.00	0	0.00	0.00	0	0.00	0	0	0.00
10/01/84	39	3.80	261.0	35.20	0	0.00	0.00	0	0.00	0	0	0.00
11/01/84	0	3.80	257.2	0.00	0	0.00	0.00	0	0.00	0	0	0.00
12/01/84	0	3.80	253.4	0.00	0	0.00	0.00	0	0.00	0	0	0.00
13/01/84	29	3.80	278.6	25.20	0	0.00	0.00	0	0.00	0	0	0.00
14/01/84	21	3.80	295.8	17.20	0	0.00	0.00	0	0.00	0	0	0.00
15/01/84	5	3.80	297.0	1.20	0	0.00	0.00	0	0.00	0	0	0.00
16/01/84	0	3.80	293.2	0.00	0	0.00	0.00	0	0.00	0	0	0.00
17/01/84	22	3.80	311.4	18.20	0	0.00	0.00	0	0.00	0	0	0.00
18/01/84	3	3.80	310.6	0.00	0	0.00	0.00	0	0.00	0	0	0.00
19/01/84	0	3.80	306.8	0.00	0	0.00	0.00	0	0.00	0	0	0.00
20/01/84	0	3.80	303.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
21/01/84	0	3.80	299.2	0.00	0	0.00	0.00	0	0.00	0	0	0.00
22/01/84	0	3.80	295.4	0.00	0	0.00	0.00	0	0.00	0	0	0.00
23/01/84	0	3.80	291.6	0.00	0	0.00	0.00	0	0.00	0	0	0.00
24/01/84	0	3.80	287.8	0.00	0	0.00	0.00	0	0.00	0	0	0.00
25/01/84	9	3.80	293.0	5.20	0	0.00	0.00	0	0.00	0	0	0.00
26/01/84	0	3.80	289.2	0.00	0	0.00	0.00	0	0.00	0	0	0.00
27/01/84	1	3.80	286.4	0.00	0	0.00	0.00	0	0.00	0	0	0.00
28/01/84	0	3.80	282.6	0.00	0	0.00	0.00	0	0.00	0	0	0.00
29/01/84	0	3.80	278.8	0.00	0	0.00	0.00	0	0.00	0	0	0.00
30/01/84	0	3.80	275.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
31/01/84	37	3.80	308.2	33.20	0	0.00	0.00	0	0.00	0	0	0.00
01/02/84	23	4.10	327.1	18.90	0	0.00	0.00	0	0.00	0	0	0.00
02/02/84	0	4.10	323.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
03/02/84	8	4.10	326.9	3.90	0	0.00	0.00	0	0.00	0	0	0.00
04/02/84	0	4.10	322.8	0.00	0	0.00	0.00	0	0.00	0	0	0.00
05/02/84	2	4.10	320.7	0.00	0	0.00	0.00	0	0.00	0	0	0.00
06/02/84	0	4.10	316.6	0.00	0	0.00	0.00	0	0.00	0	0	0.00
07/02/84	0	4.10	312.5	0.00	0	0.00	0.00	0	0.00	0	0	0.00
08/02/84	0	4.10	308.4	0.00	0	0.00	0.00	0	0.00	0	0	0.00
09/02/84	1	4.10	305.3	0.00	0	0.00	0.00	0	0.00	0	0	0.00
10/02/84	0	4.10	301.2	0.00	0	0.00	0.00	0	0.00	0	0	0.00
11/02/84	0	4.10	297.1	0.00	0	0.00	0.00	0	0.00	0	0	0.00
12/02/84	0	4.10	293.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
13/02/84	6	4.10	294.9	1.90	0	0.00	0.00	0	0.00	0	0	0.00
14/02/84	20	4.10	310.8	15.90	0	0.00	0.00	0	0.00	0	0	0.00
15/02/84	15	4.10	321.7	10.90	0	0.00	0.00	0	0.00	0	0	0.00
16/02/84	0	4.10	317.6	0.00	0	0.00	0.00	0	0.00	0	0	0.00
17/02/84	0	4.10	313.5	0.00	0	0.00	0.00	0	0.00	0	0	0.00
18/02/84	0	4.10	309.4	0.00	0	0.00	0.00	0	0.00	0	0	0.00
19/02/84	0	4.10	305.3	0.00	0	0.00	0.00	0	0.00	0	0	0.00
20/02/84	1	4.10	302.2	0.00	0	0.00	0.00	0	0.00	0	0	0.00
21/02/84	0	4.10	298.1	0.00	0	0.00	0.00	0	0.00	0	0	0.00
22/02/84	0	4.10	294.0	0.00	0	0.00	0.00	0	0.00	0	0	0.00
23/02/84	0	4.10	289.9	0.00	0	0.00	0.00	0	0.00	0	0	0.00
24/02/84	0	4.10	285.8	0.00	0	0.00	0.00	0	0.00	0	0	0.00
25/02/84	0	4.10	281.7	0.00	0	0.00	0.00	0	0.00	0	0	0.00
26/02/84	4	4.10	281.6	0.00	0	0.00	0.00	0	0.00	0	0	0.00
27/02/84	0	4.10	277.5	0.00	0	0.00	0.00	0	0.00	0	0	0.00
28/02/84	5	4.10	278.4	0.90	0	0.00	0.00	0	0.00	0	0	0.00
29/02/84	70	4.10	318.3	43.97	0	0.00	29.98	4.62	0.00	0.00	21691	15.66
01/03/84	0	2.40	315.9	0.00	0	0.00	27.55	4.05	0.00	0.00	19830	14.32
02/03/84	10	2.40	323.5	7.60	0	0.00	27.28	3.99	0.00	0.00	19628	14.17
03/03/84	2	2.40	323.1	0.00	0	0.00	25.48	3.56	0.00	0.00	18258	13.18
04/03/84	0	2.40	320.7	0.00	0	0.00	23.46	3.09	0.00	0.00	16728	12.08

5/03/84	23	2.40	341.3	20.60	0	0.00	25.40	3.54	0.00	0.00	18195	13.14
6/03/84	0	2.40	338.9	0.00	0	0.00	23.39	3.07	0.00	0.00	16671	12.04
7/03/84	0	2.40	336.5	0.00	0	0.00	21.56	2.64	0.00	0.00	15293	11.04
8/03/84	0	2.40	334.1	0.00	0	0.00	19.90	2.24	0.00	0.00	14046	10.14
9/03/84	0	2.40	331.7	0.00	0	0.00	18.39	1.89	0.00	0.00	12918	9.33
0/03/84	0	2.40	329.3	0.00	0	0.00	17.01	1.56	0.00	0.00	11896	8.59
1/03/84	0	2.40	326.9	0.00	0	0.00	15.76	1.27	0.00	0.00	10970	7.92
2/03/84	0	2.40	324.5	0.00	0	0.00	14.62	1.00	0.00	0.00	10132	7.32
3/03/84	0	2.40	322.1	0.00	0	0.00	13.58	0.75	0.00	0.00	9371	6.77
4/03/84	5	2.40	324.7	2.60	0	0.00	13.10	0.64	0.00	0.00	9016	6.51
5/03/84	0	2.40	322.3	0.00	0	0.00	12.19	0.42	0.00	0.00	8359	6.04
6/03/84	31	2.40	350.9	28.60	0	0.00	13.91	0.83	0.00	0.00	9612	6.94
7/03/84	31	2.40	379.5	28.60	0	0.00	15.86	1.29	0.00	0.00	11043	7.97
8/03/84	3	2.40	380.1	0.60	0	0.00	15.03	1.09	0.00	0.00	10436	7.53
9/03/84	0	2.40	377.7	0.00	0	0.00	13.96	0.84	0.00	0.00	9647	6.97
0/03/84	0	2.40	375.3	0.00	0	0.00	12.98	0.61	0.00	0.00	8931	6.45
1/03/84	0	2.40	372.9	0.00	0	0.00	12.09	0.40	0.00	0.00	8282	5.98
2/03/84	0	2.40	370.5	0.00	0	0.00	11.28	0.21	0.00	0.00	7693	5.55
3/03/84	1	2.40	369.1	0.00	0	0.00	10.61	0.05	0.00	0.00	7212	5.21
4/03/84	32	2.40	393.4	26.69	0	0.00	14.55	0.98	0.00	0.00	10084	7.28
5/03/84	0	2.40	391.0	0.00	0	0.00	13.52	0.74	0.00	0.00	9328	6.73
6/03/84	0	2.40	388.6	0.00	0	0.00	12.58	0.52	0.00	0.00	8642	6.24
7/03/84	0	2.40	386.2	0.00	0	0.00	11.73	0.31	0.00	0.00	8020	5.79
8/03/84	60	2.40	408.2	24.49	0	0.00	56.64	10.9	0.00	0.00	42573	30.74
9/03/84	14	2.40	419.7	11.60	0	0.11	57.55	11.1	0.00	0.00	43299	31.26
0/03/84	0	2.40	417.3	0.00	0	0.08	52.53	9.95	0.00	0.00	39309	28.38
1/03/84	8	2.40	422.7	5.60	0	0.15	51.07	9.61	0.00	0.00	38153	27.55
01/04/84	2	1.90	422.7	0.10	0	0.15	47.60	8.79	0.00	0.00	35412	25.57
02/04/84	0	1.90	420.6	0.00	0	0.12	43.70	7.87	0.00	0.00	32343	23.35
03/04/84	0	1.90	418.6	0.00	0	0.10	40.15	7.03	0.00	0.00	29565	21.35
04/04/84	0	1.90	416.7	0.00	0	0.07	36.92	6.26	0.00	0.00	27049	19.53
05/04/84	0	1.90	414.7	0.00	0	0.05	33.98	5.57	0.00	0.00	24769	17.88
06/04/84	0	1.90	412.8	0.00	0	0.02	31.30	4.94	0.00	0.00	22703	16.39
07/04/84	0	1.90	410.9	0.00	0	0.00	28.85	4.36	0.00	0.00	20829	15.04
08/04/84	0	1.90	409.0	0.00	0	0.00	26.63	3.83	0.00	0.00	19129	13.81
09/04/84	0	1.90	407.1	0.00	0	0.00	24.60	3.35	0.00	0.00	17587	12.70
10/04/84	12	1.90	417.1	10.10	0	0.08	24.81	3.40	0.00	0.00	17750	12.82
11/04/84	75	1.90	436.0	21.12	0	0.32	95.07	20.0	0.00	0.00	70613	50.98
12/04/84	20	1.90	453.6	18.10	0	0.54	100.9	21.3	0.00	0.00	73692	53.21
13/04/84	0	1.90	451.2	0.00	0	0.51	92.54	19.4	0.00	0.00	69262	50.01
14/04/84	0	1.90	448.8	0.00	0	0.48	84.72	17.5	0.00	0.00	65025	46.95
15/04/84	4	1.90	450.4	2.10	0	0.50	79.98	16.4	0.00	0.00	61382	44.32
16/04/84	23	1.90	466.0	18.23	0	0.70	82.49	17.0	0.00	0.00	63421	45.79
17/04/84	1	1.90	464.5	0.00	0	0.68	76.01	15.5	0.00	0.00	58156	41.99
18/04/84	5	1.90	466.9	3.10	0	0.71	72.36	14.6	0.00	0.00	55201	39.86
19/04/84	1	1.90	465.3	0.00	0	0.69	66.74	13.3	0.00	0.00	50667	36.58
20/04/84	1	1.90	463.7	0.00	0	0.67	61.59	12.0	0.00	0.00	46534	33.60
21/04/84	4	1.90	465.1	2.10	0	0.68	58.24	11.3	0.00	0.00	43856	31.66
22/04/84	14	1.90	476.4	12.10	0	0.83	59.39	11.5	0.00	0.00	44773	32.33
23/04/84	0	1.90	473.7	0.00	0	0.79	54.42	10.4	0.00	0.00	40810	29.47
24/04/84	0	1.90	471.0	0.00	0	0.76	49.90	9.33	0.00	0.00	37226	26.88
25/04/84	0	1.90	468.4	0.00	0	0.73	45.79	8.36	0.00	0.00	33985	24.54
26/04/84	0	1.90	465.8	0.00	0	0.69	42.05	7.48	0.00	0.00	31051	22.42
27/04/84	0	1.90	463.3	0.00	0	0.66	38.65	6.67	0.00	0.00	28395	20.50
28/04/84	0	1.90	460.7	0.00	0	0.63	35.55	5.94	0.00	0.00	25989	18.76
29/04/84	0	1.90	458.2	0.00	0	0.60	32.73	5.28	0.00	0.00	23809	17.19
30/04/84	0	1.90	455.8	0.00	0	0.57	30.16	4.67	0.00	0.00	21832	15.76
01/05/84	0	1.80	453.4	0.00	0	0.54	27.84	4.12	0.00	0.00	20056	14.48
02/05/84	0	1.80	451.1	0.00	0	0.51	25.72	3.62	0.00	0.00	18442	13.32
03/05/84	0	1.80	448.8	0.00	0	0.48	23.79	3.16	0.00	0.00	16977	12.26

04/05/84	0	1.80	446.6	0.00	0	0.45	22.03	2.75	0.00	0.00	15645	11.30
05/05/84	0	1.80	444.4	0.00	0	0.42	20.41	2.37	0.00	0.00	14433	10.42
06/05/84	0	1.80	442.2	0.00	0	0.39	18.94	2.02	0.00	0.00	13332	9.63
07/05/84	0	1.80	440.0	0.00	0	0.37	17.59	1.70	0.00	0.00	12329	8.90
08/05/84	1	1.80	438.8	0.00	0	0.35	16.48	1.44	0.00	0.00	11506	8.31
09/05/84	1	1.80	437.7	0.00	0	0.34	15.46	1.20	0.00	0.00	10750	7.76
10/05/84	7	1.80	442.5	5.20	0	0.40	15.15	1.12	0.00	0.00	10520	7.60
11/05/84	25	1.80	459.0	18.86	0	0.61	20.95	2.49	0.00	0.00	14835	10.71
12/05/84	0	1.80	456.6	0.00	0	0.58	19.43	2.13	0.00	0.00	13697	9.89
13/05/84	0	1.80	454.2	0.00	0	0.55	18.04	1.80	0.00	0.00	12662	9.14
14/05/84	0	1.80	451.9	0.00	0	0.52	16.77	1.50	0.00	0.00	11719	8.46
15/05/84	0	1.80	449.6	0.00	0	0.49	15.61	1.23	0.00	0.00	10861	7.84
16/05/84	0	1.80	447.4	0.00	0	0.46	14.55	0.98	0.00	0.00	10079	7.28
17/05/84	0	1.80	445.1	0.00	0	0.43	13.58	0.75	0.00	0.00	9367	6.76
18/05/84	0	1.80	442.9	0.00	0	0.40	12.69	0.54	0.00	0.00	8718	6.29
19/05/84	1	1.80	441.7	0.00	0	0.39	11.96	0.37	0.00	0.00	8187	5.91
20/05/84	0	1.80	439.6	0.00	0	0.36	11.20	0.19	0.00	0.00	7642	5.52
21/05/84	0	1.80	437.4	0.00	0	0.33	10.51	0.03	0.00	0.00	7144	5.16
22/05/84	0	1.80	435.3	0.00	0	0.31	9.87	0	0.00	0	6682	4.82
23/05/84	1	1.80	434.2	0.00	0	0.29	9.34	0	0.00	0	6299	4.55
24/05/84	0	1.80	432.2	0.00	0	0.27	8.77	0	0.00	0	5894	4.26
25/05/84	0	1.80	430.1	0.00	0	0.24	8.24	0	0.00	0	5517	3.98
26/05/84	0	1.80	428.1	0.00	0	0.22	7.74	0	0.00	0	5165	3.73
27/05/84	1	1.80	427.1	0.00	0	0.20	7.33	0	0.00	0	4873	3.52
28/05/84	1	1.80	426.1	0.00	0	0.19	6.94	0	0.00	0	4599	3.32
29/05/84	0	1.80	424.2	0.00	0	0.17	6.53	0	0.00	0	4309	3.11
30/05/84	0	1.80	422.2	0.00	0	0.14	6.14	0	0.00	0	4038	2.92
31/05/84	0	1.80	420.3	0.00	0	0.12	5.77	0	0.00	0	3785	2.73

VOLUMEN TOTAL DEL PERIODO ANALIZADO : 36.90  
VOLUMEN INFILTRADO : -124.09  
VOLUMEN CANAL : 0.00  
VOLUMEN NATURAL : 36.90  
CAUDAL MAXIMO NATURAL : 21.38  
FECHA DEL MAXIMO CAUDAL : 12/04/84

20/03/97  
08:54:46

DATOS GENERALES

NOMBRE DE LA SECCION DE CONTROL = RUTA 95  
 COTA MEDIA DE LA SECCION = 1  
 FECHA DE INICIO DE LA EVALUACION = 29/02/84  
 FECHA DE FINALIZACION DE LA EVALUACION = 31/05/84  
 NUMERO DE CORRIDA = 1  
 VOLUMEN INICIAL EN LA EVALUACION [ Hm3 ] = 0

DATOS DE LA CURVA H - A

COEFICIENTE Ka1 DE LA PRIMERA CURVA = 6939.700  
 COEFICIENTE Na1 DE LA PRIMERA CURVA = 1.153  
 COEFICIENTE Ha1 DE LA PRIMERA CURVA = 0.000  
 COEFICIENTE Ka2 DE LA SEGUNDA CURVA = 0.000  
 COEFICIENTE Na2 DE LA SEGUNDA CURVA = 0.000  
 COEFICIENTE Ha2 DE LA SEGUNDA CURVA = 0.000  
 COEFICIENTE Ka3 DE LA TERCERA CURVA = 0.000  
 COEFICIENTE Na3 DE LA TERCERA CURVA = 0.000  
 COEFICIENTE Ha3 DE LA TERCERA CURVA = 0.000  
 ALTURA PARA EL CUAL SE PRODUCE EL CAMBIO DE CURVA1 = 30.000  
 ALTURA PARA EL CUAL SE PRODUCE EL CAMBIO DE CURVA2 = 0.000

DATOS DE LA CURVA AREA-VOLUMEN

COEFICIENTE Kv1 DE LA PRIMERA CURVA = 52.734  
 COEFICIENTE Nv1 DE LA PRIMERA CURVA = 2.466  
 COEFICIENTE Hv1 DE LA PRIMERA CURVA = 0.000  
 COEFICIENTE Kv2 DE LA SEGUNDA CURVA = 0.000  
 COEFICIENTE Nv2 DE LA SEGUNDA CURVA = 0.000  
 COEFICIENTE Hv2 DE LA SEGUNDA CURVA = 0.000  
 COEFICIENTE Kv3 DE LA TERCERA CURVA = 0.000  
 COEFICIENTE Nv3 DE LA TERCERA CURVA = 0.000  
 COEFICIENTE Hv3 DE LA TERCERA CURVA = 0.000  
 VOLUMEN PARA EL CUAL SE PRODUCE EL CAMBIO DE CURVA1 = 500.000  
 VOLUMEN PARA EL CUAL SE PRODUCE EL CAMBIO DE CURVA2 = 0.000

DATOS DE LA CURVA AREA-CAUDAL

COEFICIENTE Kq1 DE LA PRIMERA CURVA = 37.180  
 COEFICIENTE Nq1 DE LA PRIMERA CURVA = 4.000  
 COEFICIENTE Hq1 DE LA PRIMERA CURVA = -0.270  
 COEFICIENTE Kq2 DE LA SEGUNDA CURVA = 0.000  
 COEFICIENTE Nq2 DE LA SEGUNDA CURVA = 0.000  
 COEFICIENTE Hq2 DE LA SEGUNDA CURVA = 0.000  
 COEFICIENTE Kq3 DE LA TERCERA CURVA = 0.000  
 COEFICIENTE Nq3 DE LA TERCERA CURVA = 0.000  
 COEFICIENTE Hq3 DE LA TERCERA CURVA = 0.000  
 ALTURA PARA EL CUAL SE PRODUCE EL CAMBIO DE CURVA1 = 500.000  
 ALTURA PARA EL CUAL SE PRODUCE EL CAMBIO DE CURVA2 = 0.000

FECHA	QING m3/s	QSAL m3/s	AREAINUN Ha	VOLEMBAL Hm3	ALTURATERR m
29/02/84	4.62	1.03	629	0.31	0.12

57

01/03/84	4.05	1.38	815	0.54	0.16
02/03/84	3.99	1.67	944	0.74	0.18
03/03/84	3.56	1.88	1027	0.89	0.19
04/03/84	3.09	2.01	1076	0.98	0.20
05/03/84	3.54	2.17	1135	1.10	0.21
06/03/84	3.07	2.27	1168	1.17	0.21
07/03/84	2.64	2.31	1181	1.19	0.22
08/03/84	2.24	2.30	1179	1.19	0.21
09/03/84	1.89	2.26	1164	1.16	0.21
10/03/84	1.56	2.18	1138	1.10	0.21
11/03/84	1.27	2.09	1104	1.03	0.20
12/03/84	1.00	1.97	1061	0.95	0.20
13/03/84	0.75	1.84	1011	0.86	0.19
14/03/84	0.64	1.71	958	0.76	0.18
15/03/84	0.42	1.57	898	0.66	0.17
16/03/84	0.83	1.48	861	0.61	0.16
17/03/84	1.29	1.46	852	0.59	0.16
18/03/84	1.09	1.42	832	0.56	0.16
19/03/84	0.84	1.35	801	0.52	0.15
20/03/84	0.61	1.27	759	0.46	0.15
21/03/84	0.40	1.17	706	0.40	0.14
22/03/84	0.21	1.05	642	0.32	0.13
23/03/84	0.05	0.93	567	0.25	0.11
24/03/84	0.98	0.94	571	0.25	0.11
25/03/84	0.74	0.91	555	0.24	0.11
26/03/84	0.52	0.86	522	0.21	0.11
27/03/84	0.31	0.79	471	0.17	0.10
28/03/84	10.92	1.96	1057	0.94	0.20
29/03/84	11.14	2.93	1374	1.65	0.25
30/03/84	9.95	3.68	1569	2.19	0.28
31/03/84	9.61	4.31	1714	2.65	0.30
01/04/84	8.79	4.80	1815	2.99	0.31
02/04/84	7.87	5.13	1881	3.23	0.32
03/04/84	7.03	5.34	1920	3.38	0.33
04/04/84	6.26	5.44	1939	3.45	0.33
05/04/84	5.57	5.45	1941	3.46	0.33
06/04/84	4.94	5.40	1931	3.42	0.33
07/04/84	4.36	5.28	1910	3.34	0.33
08/04/84	3.83	5.13	1879	3.23	0.32
09/04/84	3.35	4.93	1842	3.09	0.32
10/04/84	3.40	4.77	1809	2.97	0.31
11/04/84	20.00	6.44	2113	4.14	0.36
12/04/84	21.38	8.14	2368	5.29	0.39
13/04/84	19.40	9.45	2541	6.15	0.42
14/04/84	17.56	10.41	2657	6.77	0.43
15/04/84	16.44	11.14	2740	7.22	0.45
16/04/84	17.03	11.86	2818	7.67	0.46
17/04/84	15.50	12.30	2865	7.95	0.46
18/04/84	14.64	12.59	2894	8.12	0.47
19/04/84	13.31	12.68	2903	8.18	0.47
20/04/84	12.09	12.61	2896	8.13	0.47
21/04/84	11.30	12.45	2879	8.03	0.47
22/04/84	11.57	12.34	2868	7.97	0.46
23/04/84	10.40	12.10	2843	7.82	0.46
24/04/84	9.33	11.76	2807	7.61	0.46
25/04/84	8.36	11.35	2762	7.35	0.45
26/04/84	7.48	10.88	2710	7.06	0.44
27/04/84	6.67	10.37	2652	6.74	0.43
28/04/84	5.94	9.84	2589	6.40	0.43
29/04/84	5.28	9.31	2523	6.05	0.42

30/04/84	4.67	8.76	2453	5.70	0.41
01/05/84	4.12	8.22	2380	5.35	0.40
02/05/84	3.62	7.70	2305	4.99	0.38
03/05/84	3.16	7.18	2229	4.65	0.37
04/05/84	2.75	6.68	2151	4.31	0.36
05/05/84	2.37	6.20	2072	3.98	0.35
06/05/84	2.02	5.74	1992	3.66	0.34
07/05/84	1.70	5.29	1911	3.35	0.33
08/05/84	1.44	4.87	1830	3.05	0.31
09/05/84	1.20	4.48	1749	2.77	0.30
10/05/84	1.12	4.12	1670	2.51	0.29
11/05/84	2.49	3.94	1631	2.38	0.28
12/05/84	2.13	3.75	1585	2.24	0.28
13/05/84	1.80	3.54	1534	2.09	0.27
14/05/84	1.50	3.32	1479	1.93	0.26
15/05/84	1.23	3.10	1420	1.77	0.25
16/05/84	0.98	2.88	1357	1.61	0.24
17/05/84	0.75	2.65	1290	1.44	0.23
18/05/84	0.54	2.43	1220	1.28	0.22
19/05/84	0.37	2.21	1147	1.12	0.21
20/05/84	0.19	1.99	1069	0.97	0.20
21/05/84	0.03	1.78	988	0.81	0.18
22/05/84	0.00	1.58	906	0.68	0.17
23/05/84	0.00	1.41	826	0.56	0.16
24/05/84	0.00	1.25	747	0.45	0.14
25/05/84	0.00	1.10	669	0.35	0.13
26/05/84	0.00	0.97	590	0.27	0.12
27/05/84	0.00	0.84	509	0.20	0.10
28/05/84	0.00	0.73	426	0.13	0.09
29/05/84	0.00	0.62	337	0.08	0.07
30/05/84	0.00	0.51	234	0.04	0.05
31/05/84	0.00	0.40	66	0.00	0.02

VOLUMEN TOTAL EROGADO POR LA SECCION : 36.90  
CAUDAL MAXIMO EROGADO : 12.68  
FECHA DEL MAXIMO CAUDAL : 19/04/84

20/03/97  
09:30:25

DATOS GENERALES

NOMBRE DEL MODULO = SAENZ PEÑA  
 AREA DEL MODULO [Has.] = 138,500  
 FECHA DE INICIO DE LA EVALUACION = 01/11/83  
 FECHA DE FINALIZACION DE LA EVALUACION = 31/05/84  
 NUMERO DE CORRIDA = 3

DATOS DEL SUELO

CAPACIDAD DE CAMPO EN mm = 411  
 MARCHITEZ PERMANENTE EN mm = 178  
 CAPACIDAD DE ALMACENAMIENTO MAXIMO EN mm = 571  
 HUMEDAD DE SUELO INICIAL EN mm = 246  
 PERCOLACION MAXIMA DEL SUELO EN mm/dia = 2.000  
 INFILTRACION DE BASE mm/hs = 0.300  
 INFILTRACION MAXIMA mm/hs = 30.000  
 VOLUMEN MAXIMO SUPERFICIAL Hm3 = 10.400

DATOS DE LA CURVA AREA-VOLUMEN

COEFICIENTE K1 DE LA PRIMERA CURVA = 590.000  
 COEFICIENTE N1 DE LA PRIMERA CURVA = 1.060  
 COEFICIENTE H01 DE LA PRIMERA CURVA = 0.000  
 COEFICIENTE K2 DE LA SEGUNDA CURVA = 2720.000  
 COEFICIENTE N2 DE LA SEGUNDA CURVA = 0.715  
 COEFICIENTE H02 DE LA SEGUNDA CURVA = 0.000  
 VOLUMEN PARA EL CUAL SE PRODUCE EL CAMBIO DE CURVA = 84.500

DATOS DE AJUSTE DEL MODELO

COEF. DE LA FORMULA DE HORTON KI = 0.400  
 COEF. PARA EL CALCULO DE INF. INICIAL K = 0.007  
 COEF. DE ESCORRENTIA Ces1 para nivel de Inundacion 1 = 0.016  
 COEF. DE ESCORRENTIA Ces2 para nivel de Inundacion 2 = 0.000  
 COEF. DE ESCORRENTIA Ces3 para nivel de Inundacion 3 = 0.000  
 COEF. DE ESCORRENTIA Ces4 para nivel de Inundacion 4 = 0.000  
 COEF. DE ESCORRENTIA Ces5 para nivel de Inundacion 5 = 0.000  
 Volumen en Hm3 para nivel de Inundacion 1 = 800.000  
 Volumen en Hm3 para nivel de Inundacion 2 = 0.000  
 Volumen en Hm3 para nivel de Inundacion 3 = 0.000  
 Volumen en Hm3 para nivel de Inundacion 4 = 0.000  
 Volumen en Hm3 para nivel de Inundacion 5 = 0.000  
 Volumen en Hm3 para nivel de Inundacion 6 = 0.000  
 CAPACIDAD DE CONDUCCION DEL CANAL de SALIDA [m3/seg] = 14.400

FECHA	PRECI mm	EVAP mm	SUE mm	INF mm	QING m3/s	PERC mm	VOLSUP Hm3	QNAT m3/s	QSAL m3/s	QCAN m3/s	AREA INUN	AREA %
01/11/83	0	2.70	243.3	0.00	0	0.00	0.00	0	0.00	0	0	0.00
02/11/83	3	2.70	243.6	0.30	0	0.00	0.00	0	0.00	0	0	0.00
03/11/83	0	2.70	240.9	0.00	0	0.00	0.00	0	0.00	0	0	0.00
04/11/83	0	2.70	238.2	0.00	0	0.00	0.00	0	0.00	0	0	0.00
05/11/83	0	2.70	235.5	0.00	0	0.00	0.00	0	0.00	0	0	0.00

06/11/83	0	2.70	232.8	0.00	0	0.00	0.00	0	0.00	0	0.00
07/11/83	25	2.70	255.1	22.30	0	0.00	0.00	0	0.00	0	0.00
08/11/83	0	2.70	252.4	0.00	0	0.00	0.00	0	0.00	0	0.00
09/11/83	0	2.70	249.7	0.00	0	0.00	0.00	0	0.00	0	0.00
10/11/83	19	2.70	266.0	16.30	0	0.00	0.00	0	0.00	0	0.00
11/11/83	0	2.70	263.3	0.00	0	0.00	0.00	0	0.00	0	0.00
12/11/83	18	2.70	278.6	15.30	0	0.00	0.00	0	0.00	0	0.00
13/11/83	0	2.70	275.9	0.00	0	0.00	0.00	0	0.00	0	0.00
14/11/83	0	2.70	273.2	0.00	0	0.00	0.00	0	0.00	0	0.00
15/11/83	0	2.70	270.5	0.00	0	0.00	0.00	0	0.00	0	0.00
16/11/83	0	2.70	267.8	0.00	0	0.00	0.00	0	0.00	0	0.00
17/11/83	0	2.70	265.1	0.00	0	0.00	0.00	0	0.00	0	0.00
18/11/83	6	2.70	268.4	3.30	0	0.00	0.00	0	0.00	0	0.00
19/11/83	0	2.70	265.7	0.00	0	0.00	0.00	0	0.00	0	0.00
20/11/83	0	2.70	263.0	0.00	0	0.00	0.00	0	0.00	0	0.00
21/11/83	9	2.70	269.3	6.30	0	0.00	0.00	0	0.00	0	0.00
22/11/83	1	2.70	267.6	0.00	0	0.00	0.00	0	0.00	0	0.00
23/11/83	0	2.70	264.9	0.00	0	0.00	0.00	0	0.00	0	0.00
24/11/83	0	2.70	262.2	0.00	0	0.00	0.00	0	0.00	0	0.00
25/11/83	0	2.70	259.5	0.00	0	0.00	0.00	0	0.00	0	0.00
26/11/83	0	2.70	256.8	0.00	0	0.00	0.00	0	0.00	0	0.00
27/11/83	0	2.70	254.1	0.00	0	0.00	0.00	0	0.00	0	0.00
28/11/83	0	2.70	251.4	0.00	0	0.00	0.00	0	0.00	0	0.00
29/11/83	2	2.70	250.7	0.00	0	0.00	0.00	0	0.00	0	0.00
30/11/83	0	2.70	248.0	0.00	0	0.00	0.00	0	0.00	0	0.00
01/12/83	11	3.00	256.0	8.00	0	0.00	0.00	0	0.00	0	0.00
02/12/83	10	3.00	263.0	7.00	0	0.00	0.00	0	0.00	0	0.00
03/12/83	0	3.00	260.0	0.00	0	0.00	0.00	0	0.00	0	0.00
04/12/83	2	3.00	259.0	0.00	0	0.00	0.00	0	0.00	0	0.00
05/12/83	0	3.00	256.0	0.00	0	0.00	0.00	0	0.00	0	0.00
06/12/83	0	3.00	253.0	0.00	0	0.00	0.00	0	0.00	0	0.00
07/12/83	0	3.00	250.0	0.00	0	0.00	0.00	0	0.00	0	0.00
08/12/83	0	3.00	247.0	0.00	0	0.00	0.00	0	0.00	0	0.00
09/12/83	0	3.00	244.0	0.00	0	0.00	0.00	0	0.00	0	0.00
10/12/83	0	3.00	241.0	0.00	0	0.00	0.00	0	0.00	0	0.00
11/12/83	1	3.00	239.0	0.00	0	0.00	0.00	0	0.00	0	0.00
12/12/83	0	3.00	236.0	0.00	0	0.00	0.00	0	0.00	0	0.00
13/12/83	0	3.00	233.0	0.00	0	0.00	0.00	0	0.00	0	0.00
14/12/83	0	3.00	230.0	0.00	0	0.00	0.00	0	0.00	0	0.00
15/12/83	0	3.00	227.0	0.00	0	0.00	0.00	0	0.00	0	0.00
16/12/83	11	3.00	235.0	8.00	0	0.00	0.00	0	0.00	0	0.00
17/12/83	2	3.00	234.0	0.00	0	0.00	0.00	0	0.00	0	0.00
18/12/83	0	3.00	231.0	0.00	0	0.00	0.00	0	0.00	0	0.00
19/12/83	2	3.00	230.0	0.00	0	0.00	0.00	0	0.00	0	0.00
20/12/83	0	3.00	227.0	0.00	0	0.00	0.00	0	0.00	0	0.00
21/12/83	11	3.00	235.0	8.00	0	0.00	0.00	0	0.00	0	0.00
22/12/83	0	3.00	232.0	0.00	0	0.00	0.00	0	0.00	0	0.00
23/12/83	0	3.00	229.0	0.00	0	0.00	0.00	0	0.00	0	0.00
24/12/83	0	3.00	226.0	0.00	0	0.00	0.00	0	0.00	0	0.00
25/12/83	0	3.00	223.0	0.00	0	0.00	0.00	0	0.00	0	0.00
26/12/83	0	3.00	220.0	0.00	0	0.00	0.00	0	0.00	0	0.00
27/12/83	0	3.00	217.0	0.00	0	0.00	0.00	0	0.00	0	0.00
28/12/83	0	3.00	214.0	0.00	0	0.00	0.00	0	0.00	0	0.00
29/12/83	7	3.00	218.0	4.00	0	0.00	0.00	0	0.00	0	0.00
30/12/83	2	3.00	217.0	0.00	0	0.00	0.00	0	0.00	0	0.00
31/12/83	0	3.00	214.0	0.00	0	0.00	0.00	0	0.00	0	0.00
01/01/84	45	3.80	255.2	41.20	0	0.00	0.00	0	0.00	0	0.00
02/01/84	0	3.80	251.4	0.00	0	0.00	0.00	0	0.00	0	0.00
03/01/84	0	3.80	247.6	0.00	0	0.00	0.00	0	0.00	0	0.00
04/01/84	1	3.80	244.8	0.00	0	0.00	0.00	0	0.00	0	0.00

05/01/84	0	3.80	241.0	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
06/01/84	0	3.80	237.2	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
07/01/84	0	3.80	233.4	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
08/01/84	0	3.80	229.6	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
09/01/84	0	3.80	225.8	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
10/01/84	39	3.80	261.0	35.20	0	0.00	0.00	0	0.00	0	0.00	0	0.00
11/01/84	0	3.80	257.2	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
12/01/84	0	3.80	253.4	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
13/01/84	29	3.80	278.6	25.20	0	0.00	0.00	0	0.00	0	0.00	0	0.00
14/01/84	21	3.80	295.8	17.20	0	0.00	0.00	0	0.00	0	0.00	0	0.00
15/01/84	5	3.80	297.0	1.20	0	0.00	0.00	0	0.00	0	0.00	0	0.00
16/01/84	0	3.80	293.2	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
17/01/84	22	3.80	311.4	18.20	0	0.00	0.00	0	0.00	0	0.00	0	0.00
18/01/84	3	3.80	310.6	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
19/01/84	0	3.80	306.8	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
20/01/84	0	3.80	303.0	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
21/01/84	0	3.80	299.2	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
22/01/84	0	3.80	295.4	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
23/01/84	0	3.80	291.6	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
24/01/84	0	3.80	287.8	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
25/01/84	9	3.80	293.0	5.20	0	0.00	0.00	0	0.00	0	0.00	0	0.00
26/01/84	0	3.80	289.2	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
27/01/84	1	3.80	286.4	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
28/01/84	0	3.80	282.6	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
29/01/84	0	3.80	278.8	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
30/01/84	0	3.80	275.0	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
31/01/84	37	3.80	308.2	33.20	0	0.00	0.00	0	0.00	0	0.00	0	0.00
01/02/84	23	4.10	327.1	18.90	0	0.00	0.00	0	0.00	0	0.00	0	0.00
02/02/84	0	4.10	323.0	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
03/02/84	8	4.10	326.9	3.90	0	0.00	0.00	0	0.00	0	0.00	0	0.00
04/02/84	0	4.10	322.8	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
05/02/84	2	4.10	320.7	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
06/02/84	0	4.10	316.6	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
07/02/84	0	4.10	312.5	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
08/02/84	0	4.10	308.4	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
09/02/84	1	4.10	305.3	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
10/02/84	0	4.10	301.2	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
11/02/84	0	4.10	297.1	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
12/02/84	0	4.10	293.0	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
13/02/84	6	4.10	294.9	1.90	0	0.00	0.00	0	0.00	0	0.00	0	0.00
14/02/84	20	4.10	310.8	15.90	0	0.00	0.00	0	0.00	0	0.00	0	0.00
15/02/84	15	4.10	321.7	10.90	0	0.00	0.00	0	0.00	0	0.00	0	0.00
16/02/84	0	4.10	317.6	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
17/02/84	0	4.10	313.5	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
18/02/84	0	4.10	309.4	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
19/02/84	0	4.10	305.3	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
20/02/84	1	4.10	302.2	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
21/02/84	0	4.10	298.1	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
22/02/84	0	4.10	294.0	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
23/02/84	0	4.10	289.9	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
24/02/84	0	4.10	285.8	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
25/02/84	0	4.10	281.7	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
26/02/84	4	4.10	281.6	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
27/02/84	0	4.10	277.5	0.00	0	0.00	0.00	0	0.00	0	0.00	0	0.00
28/02/84	5	4.10	278.4	0.90	0	0.00	0.00	0	0.00	0	0.00	0	0.00
29/02/84	70	4.10	318.3	43.97	0	0.00	28.83	3.47	0.00	14.4	20814	15.03	
01/03/84	0	2.40	315.9	0.00	0	0.00	25.35	2.81	0.00	14.4	18158	13.11	
02/03/84	10	2.40	323.5	7.60	0	0.00	23.96	2.55	0.00	14.4	17102	12.35	
03/03/84	2	2.40	323.1	0.00	0	0.00	21.24	2.04	0.00	14.4	15051	10.87	
04/03/84	0	2.40	320.7	0.00	0	0.00	18.42	1.51	0.00	14.4	12942	9.34	

05/03/84	23	2.40	341.3	20.60	0	0.00	18.77	1.58	0.00	14.4	13206	9.53
06/03/84	0	2.40	338.9	0.00	0	0.00	16.17	1.09	0.00	14.4	11271	8.14
07/03/84	0	2.40	336.5	0.00	0	0.00	13.78	0.64	0.00	14.4	9520	6.87
08/03/84	0	2.40	334.1	0.00	0	0.00	11.61	0.23	0.00	14.4	7933	5.73
09/03/84	0	2.40	331.7	0.00	0	0.00	10.40	0	0.00	5.16	7062	5.10
10/03/84	0	2.40	329.3	0.00	0	0.00	9.72	0	0.00	0	6575	4.75
11/03/84	0	2.40	326.9	0.00	0	0.00	9.09	0	0.00	0	6123	4.42
12/03/84	0	2.40	324.5	0.00	0	0.00	8.50	0	0.00	0	5704	4.12
13/03/84	0	2.40	322.1	0.00	0	0.00	7.96	0	0.00	0	5316	3.84
14/03/84	5	2.40	324.7	2.60	0	0.00	7.71	0	0.00	0	5143	3.71
15/03/84	0	2.40	322.3	0.00	0	0.00	7.22	0	0.00	0	4794	3.46
16/03/84	31	2.40	350.9	28.60	0	0.00	8.24	0	0.00	0	5520	3.99
17/03/84	31	2.40	379.5	28.60	0	0.00	9.42	0	0.00	0	6362	4.59
18/03/84	3	2.40	380.1	0.60	0	0.00	9.00	0	0.00	0	6062	4.38
19/03/84	0	2.40	377.7	0.00	0	0.00	8.42	0	0.00	0	5647	4.08
20/03/84	0	2.40	375.3	0.00	0	0.00	7.88	0	0.00	0	5263	3.80
21/03/84	0	2.40	372.9	0.00	0	0.00	7.38	0	0.00	0	4906	3.54
22/03/84	0	2.40	370.5	0.00	0	0.00	6.90	0	0.00	0	4574	3.30
23/03/84	1	2.40	369.1	0.00	0	0.00	6.51	0	0.00	0	4299	3.10
24/03/84	32	2.40	393.4	26.69	0	0.00	10.40	0	0.00	1.63	7062	5.10
25/03/84	0	2.40	391.0	0.00	0	0.00	9.72	0	0.00	0	6575	4.75
26/03/84	0	2.40	388.6	0.00	0	0.00	9.09	0	0.00	0	6123	4.42
27/03/84	0	2.40	386.2	0.00	0	0.00	8.50	0	0.00	0	5704	4.12
28/03/84	60	2.40	408.2	24.49	0	0.00	52.43	7.91	0.00	14.4	39228	28.32
29/03/84	14	2.40	419.7	11.60	0	0.11	52.23	7.87	0.00	14.4	39071	28.21
30/03/84	0	2.40	417.3	0.00	0	0.08	46.65	6.82	0.00	14.4	34658	25.02
31/03/84	8	2.40	422.7	5.60	0	0.15	44.30	6.38	0.00	14.4	32810	23.69
01/04/84	2	1.90	422.7	0.10	0	0.15	40.24	5.62	0.00	14.4	29632	21.40
02/04/84	0	1.90	420.6	0.00	0	0.12	35.88	4.80	0.00	14.4	26244	18.95
03/04/84	0	1.90	418.6	0.00	0	0.10	31.90	4.05	0.00	14.4	23168	16.73
04/04/84	0	1.90	416.7	0.00	0	0.07	28.26	3.36	0.00	14.4	20373	14.71
05/04/84	0	1.90	414.7	0.00	0	0.05	24.92	2.73	0.00	14.4	17835	12.88
06/04/84	0	1.90	412.8	0.00	0	0.02	21.87	2.16	0.00	14.4	15527	11.21
07/04/84	0	1.90	410.9	0.00	0	0.00	19.07	1.63	0.00	14.4	13430	9.70
08/04/84	0	1.90	409.0	0.00	0	0.00	16.51	1.15	0.00	14.4	11523	8.32
09/04/84	0	1.90	407.1	0.00	0	0.00	14.15	0.71	0.00	14.4	9789	7.07
10/04/84	12	1.90	417.1	10.10	0	0.08	13.15	0.52	0.00	14.4	9054	6.54
11/04/84	75	1.90	436.0	21.12	0	0.32	82.72	13.6	0.00	14.4	63606	45.93
12/04/84	20	1.90	453.6	18.10	0	0.54	87.16	14.4	0.00	14.4	66357	47.91
13/04/84	0	1.90	451.2	0.00	0	0.51	78.76	12.8	0.00	14.4	60389	43.60
14/04/84	0	1.90	448.8	0.00	0	0.48	71.04	11.4	0.00	14.4	54129	39.08
15/04/84	4	1.90	450.4	2.10	0	0.50	66.13	10.4	0.00	14.4	50171	36.22
16/04/84	23	1.90	466.0	18.23	0	0.70	67.92	10.8	0.00	14.4	51617	37.27
17/04/84	1	1.90	464.5	0.00	0	0.68	61.66	9.65	0.00	14.4	46590	33.64
18/04/84	5	1.90	466.9	3.10	0	0.71	57.74	8.91	0.00	14.4	43453	31.37
19/04/84	1	1.90	465.3	0.00	0	0.69	52.30	7.88	0.00	14.4	39122	28.25
20/04/84	1	1.90	463.7	0.00	0	0.67	47.28	6.94	0.00	14.4	35159	25.39
21/04/84	4	1.90	465.1	2.10	0	0.68	43.70	6.27	0.00	14.4	32345	23.35
22/04/84	14	1.90	476.4	12.10	0	0.83	43.51	6.23	0.00	14.4	32190	23.24
23/04/84	0	1.90	473.7	0.00	0	0.79	38.87	5.36	0.00	14.4	28566	20.63
24/04/84	0	1.90	471.0	0.00	0	0.76	34.63	4.56	0.00	14.4	25276	18.25
25/04/84	0	1.90	468.4	0.00	0	0.73	30.76	3.83	0.00	14.4	22288	16.09
26/04/84	0	1.90	465.8	0.00	0	0.69	27.21	3.16	0.00	14.4	19574	14.13
27/04/84	0	1.90	463.3	0.00	0	0.66	23.97	2.55	0.00	14.4	17109	12.35
28/04/84	0	1.90	460.7	0.00	0	0.63	20.99	1.99	0.00	14.4	14867	10.73
29/04/84	0	1.90	458.2	0.00	0	0.60	18.27	1.48	0.00	14.4	12830	9.26
30/04/84	0	1.90	455.8	0.00	0	0.57	15.77	1.01	0.00	14.4	10977	7.93
01/05/84	0	1.80	453.4	0.00	0	0.54	13.49	0.58	0.00	14.4	9301	6.72
02/05/84	0	1.80	451.1	0.00	0	0.51	11.39	0.19	0.00	14.4	7775	5.61
03/05/84	0	1.80	448.8	0.00	0	0.48	10.40	0	0.00	3.34	7062	5.10

04/05/84	0	1.80	446.6	0.00	0	0.45	9.76	0	0.00	0	6605	4.77
05/05/84	0	1.80	444.4	0.00	0	0.42	9.17	0	0.00	0	6180	4.46
06/05/84	0	1.80	442.2	0.00	0	0.39	8.61	0	0.00	0	5783	4.18
07/05/84	0	1.80	440.0	0.00	0	0.37	8.09	0	0.00	0	5413	3.91
08/05/84	1	1.80	438.8	0.00	0	0.35	7.66	0	0.00	0	5107	3.69
09/05/84	1	1.80	437.7	0.00	0	0.34	7.25	0	0.00	0	4819	3.48
10/05/84	7	1.80	442.5	5.20	0	0.40	7.16	0	0.00	0	4751	3.43
11/05/84	25	1.80	459.0	18.86	0	0.61	11.90	0.28	0.00	14.4	8148	5.88
12/05/84	0	1.80	456.6	0.00	0	0.58	10.40	0	0.00	8.91	7062	5.10
13/05/84	0	1.80	454.2	0.00	0	0.55	9.76	0	0.00	0	6605	4.77
14/05/84	0	1.80	451.9	0.00	0	0.52	9.17	0	0.00	0	6180	4.46
15/05/84	0	1.80	449.6	0.00	0	0.49	8.61	0	0.00	0	5783	4.18
16/05/84	0	1.80	447.4	0.00	0	0.46	8.09	0	0.00	0	5413	3.91
17/05/84	0	1.80	445.1	0.00	0	0.43	7.61	0	0.00	0	5069	3.66
18/05/84	0	1.80	442.9	0.00	0	0.40	7.15	0	0.00	0	4747	3.43
19/05/84	1	1.80	441.7	0.00	0	0.39	6.77	0	0.00	0	4480	3.23
20/05/84	0	1.80	439.6	0.00	0	0.36	6.37	0	0.00	0	4198	3.03
21/05/84	0	1.80	437.4	0.00	0	0.33	5.99	0	0.00	0	3934	2.84
22/05/84	0	1.80	435.3	0.00	0	0.31	5.64	0	0.00	0	3688	2.66
23/05/84	1	1.80	434.2	0.00	0	0.29	5.34	0	0.00	0	3484	2.52
24/05/84	0	1.80	432.2	0.00	0	0.27	5.03	0	0.00	0	3267	2.36
25/05/84	0	1.80	430.1	0.00	0	0.24	4.73	0	0.00	0	3065	2.21
26/05/84	0	1.80	428.1	0.00	0	0.22	4.46	0	0.00	0	2876	2.08
27/05/84	1	1.80	427.1	0.00	0	0.20	4.23	0	0.00	0	2719	1.96
28/05/84	1	1.80	426.1	0.00	0	0.19	4.01	0	0.00	0	2571	1.86
29/05/84	0	1.80	424.2	0.00	0	0.17	3.78	0	0.00	0	2414	1.74
30/05/84	0	1.80	422.2	0.00	0	0.14	3.56	0	0.00	0	2267	1.64
31/05/84	0	1.80	420.3	0.00	0	0.12	3.36	0	0.00	0	2129	1.54

VOLUMEN TOTAL DEL PERIODO ANALIZADO : 77.55  
 VOLUMEN INFILTRADO : -84.89  
 VOLUMEN CANAL : 58.88  
 VOLUMEN NATURAL : 18.67  
 CAUDAL MAXIMO NATURAL : 14.45  
 FECHA DEL MAXIMO CAUDAL : 12/04/84

21/03/97  
09:36:37

DATOS GENERALES

NOMBRE DE LA SECCION DE CONTROL = RUTA 95  
COTA MEDIA DE LA SECCION = 1  
FECHA DE INICIO DE LA EVALUACION = 29/02/84  
FECHA DE FINALIZACION DE LA EVALUACION = 31/05/84  
NUMERO DE CORRIDA = 3  
VOLUMEN INICIAL EN LA EVALUACION [ Hm3 ] = 0

DATOS DE LA CURVA H - A

COEFICIENTE Ka1 DE LA PRIMERA CURVA = 6939.700  
COEFICIENTE Na1 DE LA PRIMERA CURVA = 1.153  
COEFICIENTE Ha1 DE LA PRIMERA CURVA = 0.000  
COEFICIENTE Ka2 DE LA SEGUNDA CURVA = 0.000  
COEFICIENTE Na2 DE LA SEGUNDA CURVA = 0.000  
COEFICIENTE Ha2 DE LA SEGUNDA CURVA = 0.000  
COEFICIENTE Ka3 DE LA TERCERA CURVA = 0.000  
COEFICIENTE Na3 DE LA TERCERA CURVA = 0.000  
COEFICIENTE Ha3 DE LA TERCERA CURVA = 0.000  
ALTURA PARA EL CUAL SE PRODUCE EL CAMBIO DE CURVA1 = 20.000  
ALTURA PARA EL CUAL SE PRODUCE EL CAMBIO DE CURVA2 = 0.000

DATOS DE LA CURVA AREA-VOLUMEN

COEFICIENTE Kv1 DE LA PRIMERA CURVA = 52.734  
COEFICIENTE Nv1 DE LA PRIMERA CURVA = 2.466  
COEFICIENTE Hv1 DE LA PRIMERA CURVA = 0.000  
COEFICIENTE Kv2 DE LA SEGUNDA CURVA = 0.000  
COEFICIENTE Nv2 DE LA SEGUNDA CURVA = 0.000  
COEFICIENTE Hv2 DE LA SEGUNDA CURVA = 0.000  
COEFICIENTE Kv3 DE LA TERCERA CURVA = 0.000  
COEFICIENTE Nv3 DE LA TERCERA CURVA = 0.000  
COEFICIENTE Hv3 DE LA TERCERA CURVA = 0.000  
VOLUMEN PARA EL CUAL SE PRODUCE EL CAMBIO DE CURVA1 = 500.000  
VOLUMEN PARA EL CUAL SE PRODUCE EL CAMBIO DE CURVA2 = 0.000

DATOS DE LA CURVA AREA-CAUDAL

COEFICIENTE Kq1 DE LA PRIMERA CURVA = 37.180  
COEFICIENTE Nq1 DE LA PRIMERA CURVA = 4.000  
COEFICIENTE Hq1 DE LA PRIMERA CURVA = -0.270  
COEFICIENTE Kq2 DE LA SEGUNDA CURVA = 0.000  
COEFICIENTE Nq2 DE LA SEGUNDA CURVA = 0.000  
COEFICIENTE Hq2 DE LA SEGUNDA CURVA = 0.000  
COEFICIENTE Kq3 DE LA TERCERA CURVA = 0.000  
COEFICIENTE Nq3 DE LA TERCERA CURVA = 0.000  
COEFICIENTE Hq3 DE LA TERCERA CURVA = 0.000  
ALTURA PARA EL CUAL SE PRODUCE EL CAMBIO DE CURVA1 = 500.000  
ALTURA PARA EL CUAL SE PRODUCE EL CAMBIO DE CURVA2 = 0.000

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FECHA	QING m3/s	QSAL m3/s	AREAINUN Ha	VOLEMBAL Hm3	ALTURATERR m
29/02/84	3.47	0.89	539	0.22	0.11

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01/03/84	2.81	1.12	682	0.37	0.13
02/03/84	2.55	1.29	769	0.48	0.15
03/03/84	2.04	1.38	811	0.54	0.16
04/03/84	1.51	1.39	819	0.55	0.16
05/03/84	1.58	1.41	829	0.56	0.16
06/03/84	1.09	1.38	811	0.54	0.16
07/03/84	0.64	1.29	770	0.48	0.15
08/03/84	0.23	1.17	706	0.40	0.14
09/03/84	0.00	1.03	627	0.31	0.12
10/03/84	0.00	0.90	548	0.23	0.11
11/03/84	0.00	0.78	466	0.16	0.10
12/03/84	0.00	0.67	381	0.11	0.08
13/03/84	0.00	0.56	286	0.06	0.06
14/03/84	0.00	0.46	166	0.02	0.04
15/03/84	0.00	0.34	0	0.00	0.00
16/03/84	0.00	0.20	0	0.00	0.00
17/03/84	0.00	0.20	0	0.00	0.00
18/03/84	0.00	0.20	0	0.00	0.00
19/03/84	0.00	0.20	0	0.00	0.00
20/03/84	0.00	0.20	0	0.00	0.00
21/03/84	0.00	0.20	0	0.00	0.00
22/03/84	0.00	0.20	0	0.00	0.00
23/03/84	0.00	0.20	0	0.00	0.00
24/03/84	0.00	0.20	0	0.00	0.00
25/03/84	0.00	0.20	0	0.00	0.00
26/03/84	0.00	0.20	0	0.00	0.00
27/03/84	0.00	0.20	0	0.00	0.00
28/03/84	7.91	1.41	830	0.56	0.16
29/03/84	7.87	2.12	1116	1.06	0.20
30/03/84	6.82	2.62	1281	1.42	0.23
31/03/84	6.38	3.02	1397	1.71	0.25
01/04/84	5.62	3.29	1472	1.91	0.26
02/04/84	4.80	3.45	1513	2.03	0.27
03/04/84	4.05	3.52	1529	2.07	0.27
04/04/84	3.36	3.50	1525	2.06	0.27
05/04/84	2.73	3.42	1504	2.00	0.27
06/04/84	2.16	3.29	1469	1.91	0.26
07/04/84	1.63	3.11	1422	1.78	0.25
08/04/84	1.15	2.90	1364	1.63	0.24
09/04/84	0.71	2.67	1296	1.46	0.23
10/04/84	0.52	2.44	1225	1.29	0.22
11/04/84	13.61	3.63	1556	2.15	0.27
12/04/84	14.45	4.79	1813	2.99	0.31
13/04/84	12.87	5.67	1981	3.61	0.34
14/04/84	11.41	6.31	2090	4.05	0.35
15/04/84	10.49	6.78	2166	4.37	0.36
16/04/84	10.83	7.23	2237	4.68	0.37
17/04/84	9.65	7.51	2278	4.87	0.38
18/04/84	8.91	7.67	2301	4.98	0.38
19/04/84	7.88	7.69	2305	4.99	0.38
20/04/84	6.94	7.61	2292	4.93	0.38
21/04/84	6.27	7.45	2270	4.83	0.38
22/04/84	6.23	7.31	2249	4.74	0.38
23/04/84	5.36	7.09	2216	4.59	0.37
24/04/84	4.56	6.81	2171	4.39	0.37
25/04/84	3.83	6.47	2118	4.17	0.36
26/04/84	3.16	6.10	2056	3.91	0.35
27/04/84	2.55	5.71	1988	3.64	0.34
28/04/84	1.99	5.30	1913	3.35	0.33
29/04/84	1.48	4.89	1833	3.06	0.32

30/04/84	1.01	4.47	1747	2.76	0.30
01/05/84	0.58	4.05	1655	2.46	0.29
02/05/84	0.19	3.64	1558	2.16	0.27
03/05/84	0.00	3.25	1460	1.88	0.26
04/05/84	0.00	2.91	1365	1.63	0.24
05/05/84	0.00	2.60	1274	1.40	0.23
06/05/84	0.00	2.32	1186	1.20	0.22
07/05/84	0.00	2.07	1099	1.03	0.20
08/05/84	0.00	1.85	1016	0.87	0.19
09/05/84	0.00	1.65	934	0.72	0.18
10/05/84	0.00	1.47	853	0.60	0.16
11/05/84	0.28	1.33	790	0.51	0.15
12/05/84	0.00	1.18	711	0.40	0.14
13/05/84	0.00	1.04	632	0.31	0.13
14/05/84	0.00	0.91	553	0.24	0.11
15/05/84	0.00	0.79	471	0.17	0.10
16/05/84	0.00	0.68	386	0.11	0.08
17/05/84	0.00	0.57	292	0.06	0.06
18/05/84	0.00	0.46	175	0.02	0.04
19/05/84	0.00	0.35	0	0.00	0.00
20/05/84	0.00	0.20	0	0.00	0.00
21/05/84	0.00	0.20	0	0.00	0.00
22/05/84	0.00	0.20	0	0.00	0.00
23/05/84	0.00	0.20	0	0.00	0.00
24/05/84	0.00	0.20	0	0.00	0.00
25/05/84	0.00	0.20	0	0.00	0.00
26/05/84	0.00	0.20	0	0.00	0.00
27/05/84	0.00	0.20	0	0.00	0.00
28/05/84	0.00	0.20	0	0.00	0.00
29/05/84	0.00	0.20	0	0.00	0.00
30/05/84	0.00	0.20	0	0.00	0.00
31/05/84	0.00	0.20	0	0.00	0.00

VOLUMEN TOTAL EROGADO POR LA SECCION :

19.11

CAUDAL MAXIMO EROGADO : 7.69

FECHA DEL MAXIMO CAUDAL : 19/04/84

CORRIDA N° 7

MODULO 1

EVALUACION HIDRICA A PASO MENSUAL

MES	SET	OCT	NOV	DIC	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO
PRECIPITACION [mm]	49	252	46	184	135	105	182	222	331	8	23	3
APORTES REC. [mm]	0	0	0	0	0	0	0	0	0	0	0	0
EVAPOTRANSPIRACION [mm]	138	108	148	154	146	118	122	78	55	45	68	99
RESERVA [mm]	120	264	162	192	181	168	228	372	648	611	566	470
DEFICIT [mm]	9	0	0	0	0	0	0	0	0	0	0	0
EXCESO INIC. [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESCURRIMIENTO [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESCURRIMIENTO [hm3]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EXCESO FINAL [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AREA INUND. [%]	0	0	0	0	0	0	0	0	0	0	0	0

RESERVA [mm]	120	264	162	192	181	168	228	372	648	611	566	470
DEFICIT [mm]	9	0	0	0	0	0	0	0	0	0	0	0
EXCESO INIC. [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESC.CON OBRA [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESC.NATURAL [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EXCESO FINAL [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AREA INUND. [%]	0	0	0	0	0	0	0	0	0	0	0	0

AREA [Km2]	327.6
RESERVA MAX. [mm]	1000
EXC. SUP. MIN. [mm]	32
EXC. SUP. MAX. [mm]	150
COEF. ESC. SUP [Ces]	0.11
RESERVA INIC. [mm]	200
MARCHITEZ PERM [mm]	120
AÑO HIDROLOGICO	1990/91
AREA	
SISTEMA	PARANA

ESTACIONES PLUVIOMETRICAS UTILIZADAS:	EVAPOTRANSPIRACION - ESTACION: SAENZ PEÑA
	SECCION DE CONTROL:

CAUDAL DE DISEÑO OBRA 2.44 m3/s

EVALUACION HIDRICA A PASO MENSUAL MODULO 2 CON OBRA

MES	SET	OCT	NOV	DIC	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO
PRECIPITACION [mm]	26	213	78	132	149	56	192	359	323	6	6	11
APORTES REC. [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.9	8.7	3.4	0.0
EVAPOTRANSP. [mm]	138	108	148	154	146	118	122	78	55	45	68	99
RESERVA [mm]	100	205	135	113	116	100	170	380	380	380	380	364
DEFICIT [mm]	62	0	0	0	0	46	0	0	0	0	0	0
EXCESO INIC. [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.0	433.8	150.4	78.1	0.0
ESCURRIMIENTO [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	253.0	13.8	5.8	0.0
ESCURRIMIENTO[hm3]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	53.14	2.90	1.23	0.00
EXCESO FINAL [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.9	180.8	136.6	72.2	0.0
AREA INUND. [%]	0	0	0	0	0	0	0	39	81	66	42	0

	1	2	3	4	5	6	7	8	9	10	11	12
RESERVA [mm]	100	205	135	113	116	100	170	380	380	380	375	287
DEFICIT [mm]	62	0	0	0	0	46	0	0	0	0	0	0
AP.REC.OBRAS [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.1	30.1	0.0	0.0
EXCESO INIC. [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.0	319.7	111.9	0.0	0.0
ESC.CON OBRA [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.4	51.0	49.4	0.0	0.0
ESC.NATURAL [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	147.9	5.6	0.0	0.0
EXCESO FINAL [mm]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	120.7	56.9	0.0	0.0
AREA INUND. [%]	0	0	0	0	0	0	0	17	61	35	0	0

AREA [Km2]	210
RESERVA MAX. [mm]	380
EXC. SUP. MIN.[mm]	25
EXC. SUP. MAX.[mm]	200
COEF.ESC.SUP [Ces]	0.11
RESERVA INIC. [mm]	150
MARCHITEZ PERM[mm]	100
ANO HIDROLOGICO:	1990/91
AREA:	
SISTEMA:	PARANA

ESTACIONES PLUVIOMETRICAS UTILIZADAS:	EVAPOTRANSPIRACION - ESTACION:
	SAENZ PEÑA
	SECCION DE CONTROL:

12

CAUDAL DE DISEÑO OBRA 4 m3/s

CORRIDA N° 9

MODULO 3

EVALUACION HIDRICA A PASO MENSUAL

MES	SET.	OCT.	NOV.	DIC.	ENE.	FEB.	MAR.	ABR.	MAY.	JUN.	JUL.	AGO.
PRECIPITACION [MM]	39	206	59	190	195	67	159	215	264	2	15	7
APORTES REC. [MM]	0	0	0	0	0	0	0	0	0	0	0	0
EVAPOTRANSPIR. [MM]	138	108	148	154	146	118	122	78	55	32	27	44
RESERVA [MM]	110	208	119	155	204	153	190	327	420	420	420	417
DEFICIT [MM]	49	0	0	0	0	0	0	0	0	0	0	0
EXCESO INIC. [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	116.0	51.6	35.8	0.0
ESCURRIMIENTO [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.4	3.8	1.9	0.0
ESCURRIMIENTO [HM3]	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	33.3	3.7	1.8	0.0
EXCESO FINAL [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.6	47.8	33.9	0.0
AREA INUND. [%]	0	0	0	0	0	0	0	0	46	31	24	0

SIT. CON	RESERVA [MM]	110	208	119	155	204	190	327	420	420	420	417
	DEFICIT [MM]	49	0	0	0	0	0	0	0	0	0	0
	EXCESO INIC. [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	116.0	51.6	35.8	0.0
	ESC.CON OBRA [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	ESC.NATURAL [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.4	3.8	1.9	0.0
	EXCESO FINAL [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.6	47.8	33.9	0.0
OBRAS	AREA INUND. [%]	0	0	0	0	0	0	0	46	31	24	0

AREA [KM2]	966.8
RESERVA MAX. [MM]	420
EXC. SUP. MIN.[MM]	20
EXC. SUP. MAX [MM]	90
COEF.ESC.SUP [Ces]	0.12
RESERVA INIC. [MM]	160
MARCHITEZ PERM[MM]	110
AÑO HIDROLOGICO:	1990/91
AREA:	
SISTEMA:	PARANA

ESTACIONES PLUVIOMETRICAS UTILIZADAS:	EVAPOTRANSPIRACION - ESTACION: LAS BREÑAS
	SECCION DE CONTROL:

CAUDAL DE DISEÑO OBRA: 0 m3/s

CORRIDA N° 10

MODULO 4

EVALUACION HIDRICA A PASO MENSUAL

MES	SET	OCT	NOV	DIC	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO
PRECIPITACION [MM]	20	182	94	138	183	48	190	344	237	10	10	26
APORTES REC. [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6	4.3	2.1	0.0
EVAPOTRANSPIR. [MM]	138	108	148	154	146	118	122	78	55	32	27	44
RESERVA [MM]	100	174	120	104	141	100	168	380	380	380	380	380
DEFICIT [MM]	68	0	0	0	0	29	0	0	0	0	0	0
EXCESO INIC. [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.0	270.4	159.1	126.4	94.8
ESCURRIMIENTO [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	93.5	17.8	13.6	9.5
ESCURRIMIENTO [HM3]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.59	80.68	15.37	11.71	8.17
EXCESO FINAL [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.8	176.9	141.3	112.8	85.4
AREA INUND. [%]	0	0	0	0	0	0	0	32	80	68	58	47

	1	2	3	4	5	6	7	8	9	10	11	12
RESERVA [MM]	100	174	120	104	141	100	168	380	380	380	380	380
DEFICIT [MM]	68	0	0	0	0	29	0	0	0	0	0	0
AP.REC.OBRAS [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6	4.3	2.1	0.0
EXCESO INIC. [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.0	250.7	138.8	89.0	41.9
ESC.CON OBRA [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	21.7	21.0	21.7	21.7
ESC.NATURAL [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	72.4	13.9	7.3	1.2
EXCESO FINAL [MM]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.1	156.5	103.9	59.9	19.0
AREA INUND. [%]	0	0	0	0	0	0	0	22	73	55	37	16

AREA [KM2]	862.5
RESERVA MAX. [MM]	380
EXC. SUP. MIN.[MM]	22
EXC. SUP. MAX.[MM]	200
COEF.ESC.SUP [Ces]	0.13
RESERVA INIC. [MM]	150
MARCHITEZ PERM[MM]	100
ANO HIDROLOGICO:	1990/91
AREA:	
SISTEMA:	PARANA

ESTACIONES PLUVIOMETRICAS UTILIZADAS:	EVAPOTRANSPIRACION - ESTACION: LAS BREÑAS
SECCION DE CONTROL:	

CAUDAL DE DISEÑO OBRA 7 m3/s

ESTUDIO ESTADISTICO DE : Estación : 6 32 SAN BERNARDO      Ente : 16  
 SERIE DE CALCULO : Pmax  
 ESTACION : C lculo de M ximos en 30 D ías , año calendario  
 AÑO INICIAL : 1959    AÑO FINAL : 1996  
 CANTIDAD DE VALORES : 38

## ESTADISTICOS :

## VARIABLE ORIGINAL (X) :

MEDIA	DESVIO	COEF. ASIMETRIA	COEF. VARIACION	COEF. ASIM/VARI	COEF. CURTOSIS
291.0	114.71	1.79	.3941	4.54	5.72

## MOMENTOS PONDERADOS:

MW1	MW2	MW3	MW4	MGEV1	MGEV2	MG1
116.16	70.63	49.98	38.29	174.87	129.34	116.55

## VALORES EXTREMOS :

## INDICES :

MAXIMO	MINIMO	RANGO	MAXIMA	MINIMA	MIN-MAX	MAX-MIN
674.	143.	531.	2.316	.491	.212	4.713

## VARIABLE TRANSFORMADA (LN(X)) :

MEDIA	DESVIO	COEF.ASIM.
5.61203	.34181	.69236

## ESTIMADORES DE LOS PARAMETROS.:

## DISTRIBUCION      P A R A M E T R O S

LOGGAUSS: Xm= .291026300E+03      S= .114707000E+03  
 GUMBEL:    AG= .835788600E+02      GM= .242784600E+03  
 GEV :      AGEV= .674976300E+02      UGEV= .235231000E+03      G= -.203610600E+00  
 PEARSON: MEDP= .291026300E+03      DESP= .107071600E+03      SKEW= .134405900E+01  
 LOGPEARSON: UY= -.61378170E-01      DESLP= .337248700E+00      ASILP= .647350500E+00  
 EXPONENCIAL: Xm= .291026300E+03      S= .114707000E+03  
 WAKEBY :    A= .346622200E+00      B= .116326000E+02      C= .111369600E+01  
               D= .221622000E+00      M= .363721900E+00

## VALORES DE LA VARIABLE PARA DISTINTAS PROBABILIDADES

PROB.	LOG GAUSS	GUMBEL	GEV	PEARSON	LOG PEARSON.	EXP.	WAKEBY
.2000	372.8	368.1	353.6	367.4	357.9	360.9	345.6
.1428	406.3	399.1	388.9	398.4	390.1	399.6	381.5
.1000	440.6	430.9	427.9	434.3	428.7	440.4	422.5
.0833	458.0	446.9	448.8	450.0	446.6	461.4	444.8
.0666	479.1	466.3	475.2	470.8	470.8	487.1	473.4
.0050	720.5	685.4	878.2	695.9	798.6	784.1	931.3

PROBABILIDADES PARA DISTINTOS VALORES DE LA VARIABLE

VAR.	ANO	FREC.	FREC. EXP	LOG GAUSS	GUMBEL	GEV	PEARSON	LOG PEARSON	EXPONENC.
674.	1984	.0132	.0082	.0057	.0158	.0064	.0122	.0131	.0000
618.	1986	.0395	.0149	.0112	.0228	.0126	.0189	.0213	.0000
503.	1989	.0658	.0516	.0435	.0531	.0472	.0502	.0580	.0000
459.	1983	.0921	.0824	.0725	.0763	.0765	.0751	.0851	.0000
420.	1972	.1184	.1240	.1131	.1073	.1163	.1088	.1195	.0000
365.	1996	.1447	.2159	.2068	.1791	.2048	.1864	.1930	.0000
336.	1991	.1711	.2850	.2795	.2378	.2719	.2488	.2486	.0000
326.	1965	.1974	.3125	.3089	.2626	.2989	.2748	.2712	.0000
324.	1981	.2237	.3183	.3151	.2679	.3045	.2803	.2760	.0000
320.	1964	.2500	.3301	.3277	.2788	.3161	.2916	.2858	.0000
319.	1985	.2763	.3330	.3309	.2816	.3191	.2944	.2883	.0000
312.	1971	.3026	.3545	.3539	.3020	.3404	.3156	.3064	.0000
309.	1961	.3289	.3640	.3642	.3112	.3498	.3251	.3145	.0000
307.	1977	.3553	.3705	.3711	.3175	.3563	.3315	.3201	.0000
289.	1966	.3816	.4319	.4374	.3800	.4180	.3950	.3744	.0000
270.	1960	.4079	.5029	.5143	.4581	.4910	.4730	.4419	.0000
270.	1976	.4342	.5029	.5143	.4581	.4910	.4730	.4419	.0000
266.	1973	.4605	.5186	.5312	.4762	.5074	.4908	.4576	.0000
263.	1982	.4868	.5305	.5440	.4901	.5199	.5045	.4697	.0000
262.	1967	.5132	.5345	.5482	.4949	.5241	.5091	.4738	.0000
259.	1974	.5395	.5465	.5612	.5092	.5368	.5232	.4864	.0000
259.	1969	.5658	.5465	.5612	.5092	.5368	.5232	.4864	.0000
249.	1979	.5921	.5872	.6048	.5591	.5803	.5716	.5307	.0000
247.	1968	.6184	.5955	.6136	.5694	.5892	.5816	.5400	.0000
240.	1963	.6447	.6245	.6444	.6063	.6209	.6172	.5740	.0000
229.	1992	.6711	.6703	.6925	.6664	.6717	.6746	.6317	.0000
226.	1980	.6974	.6828	.7055	.6830	.6857	.6904	.6485	.0000
225.	1990	.7237	.6869	.7098	.6885	.6904	.6957	.6542	.0000
222.	1995	.7500	.6993	.7226	.7052	.7045	.7116	.6715	.0000
220.	1993	.7763	.7076	.7311	.7163	.7139	.7221	.6833	.0000
217.	1994	.8026	.7198	.7437	.7329	.7281	.7379	.7014	.0000
215.	1959	.8289	.7280	.7520	.7440	.7375	.7484	.7138	.0000
206.	1975	.8553	.7640	.7884	.7927	.7795	.7949	.7720	.0000
187.	1970	.8816	.8350	.8576	.8852	.8643	.8839	.9111	.0000
184.	1978	.9079	.8453	.8674	.8978	.8767	.8963	.9352	.0000
161.	1987	.9342	.9143	.9301	.9690	.9578	.9696	.9999	.0000
158.	1962	.9605	.9218	.9366	.9748	.9658	.9743	.9999	.0000
143.	1988	.9868	.9535	.9631	.9930	.9939	.9934	.9999	.0000

BONDAD DE AJUSTE

	LOGGAUSS.	GUMBEL.	GEV	PEARSON	LOGPEARSON.	EXPONENC.
KOLMOGOROFF:	AAA	AAA	AAA	AAA	AAA	AAA
CHI CUADRADO:	---	---	---	---	---	---
ECMF :	.0566	.0521	.0372	.0476	.0376	.0535
ECMV :	26.31	27.96	18.31	25.29	19.72	20.14

SIMBOLOGIA PARA LA BONDAD DEL AJUSTE : A: SE ACEPTA LA HIPOTESIS. R : SE RECHAZA LA HIPOTESIS. SE CONSIDERAN 3 NIVELES DE SIGNIFICACION: 5, 1 Y 0.1 % DE ACUERDO A SU UBICACION DE IZQUIERDA A DERECHA EN EL CARACTER DE CALIFICACION.

## CORRIDA-N° 12

ESTUDIO ESTADISTICO DE : Precipitacion Anual  
 SERIE DE CALCULO : Pmax  
 ESTACION : Estacion: SAN BERNARDO Codigo: 32  
 AÑO INICIAL : 1959 AÑO FINAL : 1996  
 CANTIDAD DE VALORES : 38

**ESTADISTICOS :**

**VARIABLE ORIGINAL (X) :**

MEDIA	DESVIO	COEF. ASIMETRIA	COEF. VARIACION	COEF. ASIM/VARI	COEF. CURTOSIS
970.3	252.25	.69	.2600	2.67	4.08

**MOMENTOS PONDERADOS:**

MW1	MW2	MW3	MW4	MGEV1	MGEV2	MG1
414.38	255.45	181.47	139.21	555.93	397.00	416.40

**VALORES EXTREMOS :**

MAXIMO	MINIMO	RANGO	INDICES : MAXIMA	MINIMA	MIN-MAX	MAX-MIN
1706.	381.	1325.	1.758	.393	.223	4.478

**VARIABLE TRANSFORMADA (LN(X)) :**

MEDIA	DESVIO	COEF. ASIM.
6.84404	.26836	-.62657

**ESTIMADORES DE LOS PARAMETROS :**

DISTRIBUCION	P A R A M E T R O S					
LOGGAUSS:	Xm=	.970315800E+03	S=	.252253600E+03		
GUMBEL:	AG=	.198386000E+03	GM=	.855807400E+03		
GEV. :	AGEV=	.219089200E+03	UGEV=	.860394100E+03	G=	.819992900E-01
PEARSON:	MEDP=	.970315800E+03	DESP=	.246452600E+03	SKEW=	.374677400E+00
LOGPEARSON:	UY=	-.335920000E-01	DESLP=	.260967600E+00	ASILP=	-.157694300E+00
EXPONENCIAL:	Xm=	.970315800E+03	S=	.252253600E+03		
WAKEBY :	A=	.404133700E+00	B=	.625149100E+01	C=	.120847200E+01
	D=	.137737900E+00	M=	.458555900E+00		

**VALORES DE LA VARIABLE PARA DISTINTAS PROBABILIDADES**

PROB.	LOG GAUSS	GUMBEL	GEV	PEARSON	LOG PEARSON	EXPONENC.	WAKEBY
.2000	1164.6	1153.4	1169.6	1172.0	1170.8	1124.0	1128.1
.1428	1234.0	1226.8	1240.3	1231.1	1235.5	1209.0	1197.6
.1000	1303.3	1302.2	1310.6	1294.4	1304.7	1298.9	1274.7
.0833	1337.6	1340.3	1345.3	1321.7	1335.6	1345.0	1315.8
.0666	1378.7	1386.4	1386.6	1356.4	1374.6	1401.4	1367.4
.0050	1814.5	1906.4	1801.6	1691.3	1767.9	2054.6	2097.2

PROBABILIDADES PARA DISTINTOS VALORES DE LA VARIABLE

VAR.	ANO	FREC.	FREC. EXP	LOG GAUSS	GUMBEL	GEV	PEARSON PEARSON	LOG PEARSON	EXPONENC.
1706.	1984	.0132	.0098	.0137	.0096	.0044	.0078	.0199	.0000
1575.	1986	.0395	.0216	.0263	.0222	.0134	.0191	.0335	.0000
1383.	1996	.0658	.0651	.0677	.0679	.0563	.0640	.0716	.0000
1252.	1992	.0921	.1304	.1269	.1348	.1291	.1332	.1204	.0000
1187.	1973	.1184	.1798	.1717	.1845	.1850	.1850	.1558	.0000
1168.	1983	.1447	.1968	.1872	.2015	.2042	.2027	.1680	.0000
1145.	1972	.1711	.2191	.2077	.2237	.2293	.2260	.1841	.0000
1132.	1989	.1974	.2325	.2201	.2370	.2444	.2399	.1938	.0000
1120.	1981	.2237	.2455	.2320	.2499	.2587	.2533	.2032	.0000
1105.	1961	.2500	.2623	.2478	.2666	.2774	.2707	.2157	.0000
1079.	1977	.2763	.2936	.2772	.2975	.3116	.3026	.2391	.0000
1053.	1966	.3026	.3272	.3093	.3307	.3480	.3369	.2651	.0000
1048.	1964	.3289	.3340	.3158	.3374	.3552	.3437	.2704	.0000
1040.	1985	.3553	.3449	.3264	.3482	.3669	.3548	.2791	.0000
1025.	1965	.3816	.3661	.3470	.3690	.3893	.3761	.2962	.0000
1000.	1980	.4079	.4030	.3833	.4053	.4279	.4130	.3270	.0000
999.	1990	.4342	.4045	.3848	.4068	.4294	.4145	.3283	.0000
970.	1982	.4605	.4496	.4301	.4512	.4756	.4595	.3683	.0000
954.	1969	.4868	.4755	.4564	.4766	.5016	.4850	.3925	.0000
947.	1967	.5132	.4869	.4682	.4878	.5130	.4963	.4035	.0000
943.	1975	.5395	.4935	.4750	.4943	.5196	.5028	.4100	.0000
935.	1979	.5658	.5068	.4887	.5074	.5327	.5158	.4232	.0000
921.	1991	.5921	.5303	.5132	.5304	.5557	.5387	.4473	.0000
914.	1970	.6184	.5422	.5256	.5421	.5672	.5503	.4599	.0000
909.	1971	.6447	.5507	.5346	.5504	.5754	.5585	.4691	.0000
837.	1960	.6711	.6737	.6669	.6712	.6905	.6768	.6241	.0000
802.	1976	.6974	.7314	.7306	.7279	.7425	.7317	.7169	.0000
780.	1995	.7237	.7660	.7690	.7620	.7732	.7645	.7823	.0000
776.	1994	.7500	.7722	.7758	.7680	.7786	.7703	.7948	.0000
765.	1963	.7763	.7887	.7941	.7843	.7932	.7860	.8302	.0000
762.	1993	.8026	.7931	.7990	.7887	.7970	.7902	.8401	.0000
749.	1962	.8289	.8118	.8197	.8071	.8133	.8080	.8846	.0000
746.	1959	.8553	.8160	.8244	.8113	.8170	.8119	.8952	.0000
725.	1968	.8816	.8442	.8554	.8392	.8415	.8386	.9729	.0000
703.	1978	.9079	.8712	.8847	.8660	.8651	.8644	.9999	.0000
696.	1987	.9342	.8793	.8933	.8740	.8722	.8722	.9999	.0000
640.	1974	.9605	.9331	.9486	.9279	.9204	.9249	.9999	.0000
381.	1988	.9868	.9998	1.0000	.9994	.9976	.9993	.9999	.0000

BONDAD DE AJUSTE

	LOGGAUSS	GUMBEL	GEV	PEARSON	LOGPEARSON	EXPONENC.
KOLMOGOROFF:	AAA	AAA	AAA	AAA	AAA	AAA
CHI CUADRADO:	---	---	---	---	---	---
ECMF :	.0369	.0406	.0384	.0362	.0372	.0770
ECMV :	44.49	44.90	45.10	49.12	45.78	74.90

SIMBOLOGIA PARA LA BONDAD DEL AJUSTE :

A: SE ACEPTA LA HIPOTESIS.

R : SE RECHAZA LA HIPOTESIS.

SE CONSIDERAN 3 NIVELES DE SIGNIFICACION: 5, 1 Y 0.1 % DE ACUERDO A SU UBICACION DE IZQUIERDA A DERECHA EN EL CARACTER DE CALIFICACION.

--- : EL NUMERO DE INTERVALOS DE CLASE RESULTANTE EN EL TEST DEL CHI-CUADRADO ES MENOR QUE 5

**CONSEJO FEDERAL DE INVERSIONES**  
**BIBLIOTECA**

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