

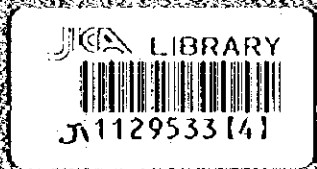
AGENCIA DE COOPERACION INTERNACIONAL JAPONICA
MINISTERIO DE DESARROLLO SOSTENIBLE Y VIDA RURAL Y URBANA
MINISTERIO DE DESARROLLO ECONOMICO
CORPORACION REGIONAL DE DESARROLLO DE SANTA CRUZ
REPUBLICA DE BOLIVIA

ESTUDIO DEL PLAN MAESTRO
SOBRE EL
CONTROL DE INUNDACIONES
EN LA
REGION RURAL NORTE DE SANTA CRUZ
EN LA
REPUBLICA DE BOLIVIA

INFORME FINAL
LIBRO DE DATOS

DICIEMBRE 1996

PACIFIC CONSULTANTS INTERNATIONAL TOKYO
EN SOCIEDAD CON
CENTRO CONSULTING INC. TOKYO



1535
JR
96-081

AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON (JICA)
MINISTERIO DE DESARROLLO SOSTENIBLE Y MEDIO AMBIENTE
MINISTERIO DE DESARROLLO ECONOMICO
CORPORACION REGIONAL DE DESARROLLO DE SANTA CRUZ
REPUBLICA DE BOLIVIA

**ESTUDIO DEL PLAN MAESTRO
SOBRE EL
CONTROL DE INUNDACIONES
EN LA
REGION RURAL NORTE DE SANTA CRUZ
EN LA
REPUBLICA DE BOLIVIA**

**INFORME FINAL
LIBRO DE DATOS**

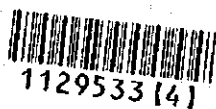
JUNIO 1996

**PACIFIC CONSULTANTS INTERNATIONAL TOKYO
EN SOCIEDAD CON
CENTRAL CONSULTANTS INC. TOKYO**

La estimación de costo fue hecha en base a los niveles de precios prevalecientes en Octubre de 1995, expresado en Bolivianos de acuerdo con la siguiente tasa de cambio.

US \$ 1.00 = Bs. 4.86 = Yen 100.00

(Octubre, 1995)



LISTA DEL LIBRO DATOS

- LIBRO DATOS A : HIDROLOGIA
- LIBRO DATOS B : ENCUESTA SOBRE DAÑOS POR
INUNDACIONES
- LIBRO DATOS C : LEVANTAMIENTO TOPOGRAFICO
- LIBRO DATOS D : ANALISIS DE INUNDACIONES CON DATOS DE
LANDSAT
- LIBRO DATOS E : FOTOGRAFIA AEREA

**LIBRO DATOS A
HIDROLOGIA**

LIBRO DATOS : HIDROLOGIA

1. Area de Captación de las Cuencas del Rio
2. Precipitación Anual
3. Precipitación Mensual
4. Día de Lluvia Mensual
5. Temperatura Promedio Mensual
6. Humidad Relativa Promedio Mensual
7. Evaporación Mensual
8. Nivel de Agua y Caudal en el Rio Piray
9. Nivel de Agua y Caudal en el Rio Grande

1. Area de Captación de las Cuencas del Rio

AREA DE CAPTACION DE LAS CUENCAS DEL RIO

CATCHMENT AREA OF THE RIVER BASINS

River Basin	Whole River Basin			Within the Study Area		
	Total	Upstream Route 9 or 7	Downstream Route 9 or 7	Total	Upstream Route 9 or 7	Downstream Route 9 or 7
1 Río Grande	1247.89	890.06	357.83	1247.89	890.06	357.83
1-1 Main Stream (Puerto Pailas - North Boundary)	271.53	59.56	211.97	271.53	59.56	211.97
1-2 Quebrada Cotoca	224.18	224.18	-	224.18	224.18	-
1-3 Quebrada El Toco	125.92	125.92	-	125.92	125.92	-
1-4 Quebrada Meco	244.82	244.82	-	244.82	244.82	-
1-5 Quebrada at Monte Verde	205.83	165.87	39.96	205.83	165.87	39.96
1-6 Drainage Channel of Okinawa 1	175.61	69.71	105.90	175.61	69.71	105.90
2 Río Chané	2271.08	1575.03	696.05	2271.08	1575.03	696.05
2-1 Río Chané (Downstream)	262.03	-	262.03	262.03	-	262.03
2-2 Río Pailón	1318.70	1154.00	164.70	1318.70	1154.00	164.70
2-2-1 Río Pailón (Downstream)	224.78	60.08	164.70	224.78	60.08	164.70
2-2-2 Río Pailón (Mid-stream)	15.80	15.80	-	15.80	15.80	-
2-2-3 Río Pailón (Upstream)	211.87	211.87	-	211.87	211.87	-
2-2-4 Quebrada Asafra - Tomicha	244.08	244.08	-	244.08	244.08	-
2-2-5 Cañada de los Caimanes	31.38	31.38	-	31.38	31.38	-
2-2-6 Arroyo Quebrada Honda	66.14	66.14	-	66.14	66.14	-
2-2-7 Arroyo Los Sauces (Downstream)	112.68	112.68	-	112.68	112.68	-
2-2-8 Arroyo Los Sauces (Upstream)	270.08	270.08	-	270.08	270.08	-
2-2-9 Río Chuchlo	141.89	141.89	-	141.89	141.89	-
2-3 Quebrada Chané	466.08	356.99	109.09	466.08	356.99	109.09
2-3-1 Mainstream	232.43	197.40	35.03	232.43	197.40	35.03
2-3-2 Quebrada El Toro	233.65	159.59	74.06	233.65	159.59	74.06
(1) Quebrada El Toro (Downstream)	38.77	-	38.77	38.77	-	38.77
(2) Quebrada El Toro (Upstream)	132.52	121.16	11.36	132.52	121.16	11.36
(3) Left Tributary	62.36	38.43	23.93	62.36	38.43	23.93
2-4 Quebrada at Cudad San Juan del Carmen	187.78	64.04	123.74	187.78	64.04	123.74
2-5 Quebrada at Cudad San Miguel	36.49	-	36.49	36.49	-	36.49
3 Río Piray	1164.64	262.70	901.94	1164.64	262.70	901.94
3-1 Main Stream (Santa Cruz - Jct. Río Chané)	1005.58	262.70	742.88	1005.58	262.70	742.88
3-2 Río Vibosi	55.45	-	55.45	55.45	-	55.45
3-3 Río del Palo	103.61	-	103.61	103.61	-	103.61
4 Río Palometillas	877.86	147.57	730.29	730.29	0.00	730.29
4-1 Río Palometillas (Main Stream up to Boundary)	107.14	-	107.14	107.14	-	107.14
4-2 Arroyo Lupe	409.92	63.40	346.52	346.52	-	346.52
4-2-1 Main Stream	159.52	-	159.52	159.52	-	159.52
4-2-2 Arroyo Asuvicito	250.40	63.40	187.00	187.00	-	187.00
4-3 Arroyo Quimori	360.80	84.17	276.63	276.63	-	276.63
5 Río Palacios	1827.34	376.06	1451.28	1284.74	0.00	1284.74
5-1 Río Palacios (Downstream)	391.01	-	391.01	227.29	-	227.29
5-2 Río Palacios (Upstream)	779.96	376.06	403.90	403.90	-	403.90
5-3 Arroyo Piquiricito	255.19	-	255.19	255.19	-	255.19
5-4 Quebrada at Col. Buen Retiro No.1	253.08	0.00	253.08	253.08	0.00	253.08
5-4-1 Main Stream	126.36	-	126.36	126.36	-	126.36
5-4-2 Arroyo Tacuara	126.72	-	126.72	126.72	-	126.72
5-5 Arroyo Jochi	148.10	-	148.10	145.28	-	145.28
6 Río Yapacani	536.20	0.00	536.20	478.83	0.00	478.83
6-1 Río Yapacani (Main Stream: Route 9 - Boundary)	121.92	-	121.92	117.61	-	117.61
6-2 Arroyo Yapacanicito	370.65	-	370.65	317.59	-	317.59
6-3 Arroyo Tejeria	43.63	-	43.63	43.63	-	43.63
Total Area	7925.01	3251.42	4673.59	7177.47	2727.79	4449.68

2. Precipitación Anual

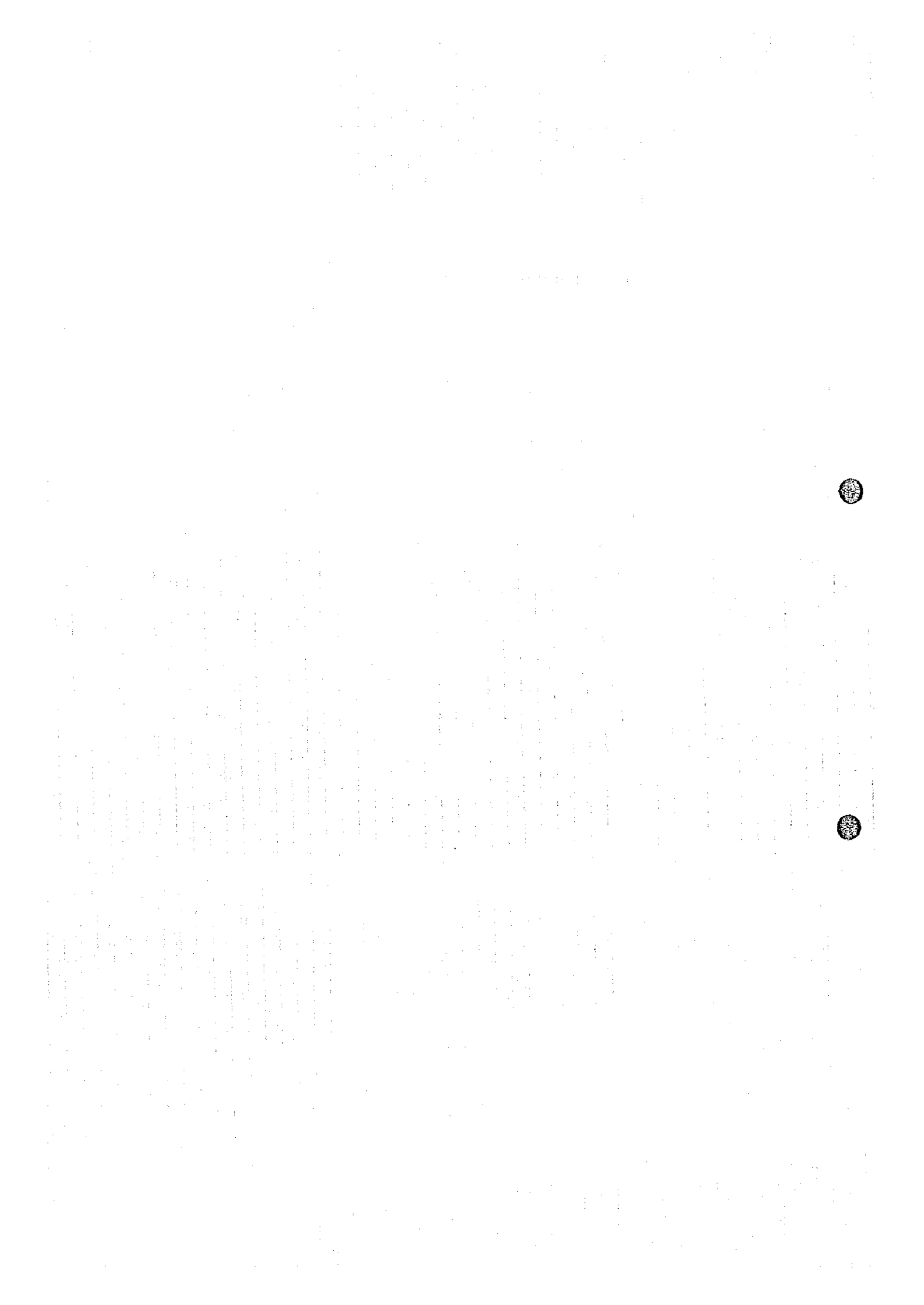
PRECIPITACION ANUAL DE LAS PRINCIPALES ESTACIONES

HISTORICAL CHANGE OF ANNUAL RAINFALL OF THE MAJOR STATIONS								
(Unit : mm/year)								
YEAR	STATION NAME							
	No. 51NP Warnes	No. 52NP San Isidro	No. 55NP Portachuelo	No. 56NP La Belgica - Ingenio	No. 58NP Terevinto	No. 59NP Puente Eisenhower	No. 61NP Saavedra	No. 5806 Santa Cruz - Trompillo
1943								1220
1944								907
1945								927
1946								1758
1947								1836
1948								1723
1949								1354
1950								1128
1951								1117
1952							1350	1222
1953							1257	1208
1954							982	1184
1955				1207			1474	1538
1956				1321			1656	1161
1957				1676			1461	1492
1958				1943			1596	1265
1959				1227			1154	1154
1960				1266			959	933
1961				1566			1240	1233
1962				758			1006	820
1963				1220			1036	849
1964				1637			1299	1180
1965				1110			1394	1096
1966				1621			1115	1044
1967				1513			1133	1235
1968				1176			1072	918
1969				1237			817	1106
1970				796			622	711
1971				663			664	848
1972				1505			1322	1073
1973				1148			1225	844
1974				1376			1316	1343
1975				1320			1088	1317
1976		1516	1224	1147			1213	1087
1977	1197	1981		1364			1333	1789
1978	1430	1867	1696	1386	844	1374	1333	1170
1979	1036	1564	1399	1070	937	1371	1386	1153
1980	1279	1976		1441	1117	1546	1661	1335
1981	1973	2597			1532	2023	2063	2010
1982	1785	2282	1977	1720	1329	1933	1908	2096
1983	1720	2240	1593	2121	1214	1812	1731	1946
1984	1561	2313	1653		1211	1710	1564	1546
1985			1346			1359	1408	1404
1986	1992			1729	1546	1963	1459	1617
1987	2010	2399		2075	2220	2555	1986	1934
1988	1131	1300	1127	1145	1211	1297	1021	1055
1989	1842	1623	1556	1518	1830	1922	1636	1530
1990	1666	2416	1874	1511	1861	2002	1636	1347
1991	1379	2253	1634	1586	2007	1597	1559	1580
1992	2629	3319	2898	2553	2879	3058	2708	2249
1993	1271	1728	1539	1555	1933	1361	1130	1177
1994	1353	1753	1434	1233	1495	1465	1410	891
Average	1603	2066	1639	1417	1573	1785	1358	1301

PRECIPITACION ANUAL DE LAS PRINCIPALES ESTACIONES

HISTORICAL CHANGE OF ANNUAL RAINFALL OF THE MAJOR STATIONS									
YEAR	STATION NAME								(Unit : mm/year)
	Okinawa I	Okinawa II CETABOL.- JICA	Puerto Pailas	San Juan de Yapacani	62NI Mincros (Unagro)				
1943									
1944									
1945									
1946									
1947									
1948									
1949									
1950									
1951									
1952									
1953									
1954									
1955									
1956									
1957									
1958									
1959									
1960				1572					
1961									
1962				1180					
1963				1920					
1964				1933					
1965				2037					
1966				1964					
1967				1869					
1968				1750					
1969		1071		2253					
1970		584		1301					
1971		674		1396					
1972		1295		1931					
1973		942		1653					
1974		1263		1747					
1975		1131		1718					
1976		1172		1551	1239				
1977	1199	1066	923	2085	1535				
1978	990	1156	1027	1998	1360				
1979	818	1156	1346	1495	1452				
1980	1096	1600	1242	2561	1388				
1981	1568	2199	1560	3264	1894				
1982	1501	1683	1622	3002	1898				
1983	1408	1219	1691	2009	1661				
1984	1569	1308	1397	1856	1663				
1985	1200	1267	1126	1561	1192				
1986	1419	1622	1234	1728	1663				
1987	1836	1653	1631	2100	1864				
1988	1013	708	852	1016	917				
1989	1260	1231	1153	1565	1659				
1990	1138	1710	1073	1996	1804				
1991	1359	1268	1351	1759	1530				
1992	1943	2259	1920	3163	2546				
1993	690	739	636	1084	973				
1994	1019	1155	976	1359	1330				
Average	1279	1274	1264	1864	1556				

3. Precipitación Mensual



PRECIPITACION MENSUAL

MONTHLY RAINFALL													
STATION :	SINP	WARNES											(Unit : mm)
YEAR	MONTH												ANNUAL
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1943													
1944													
1945													
1946													
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1975													
1976													
1977	356.1	51.3	187.1	64.0	44.7	15.9	12.5	112.4	40.2	38.3	126.8	147.9	1197
1978	207.5	146.0	90.0	5.1	84.7	131.5	13.2	26.0	63.8	103.6	200.6	358.0	1430
1979	256.7	243.4	31.1	84.0	38.8	0.0	21.8	11.5	82.4	43.7	152.4	70.3	1036
1980	188.3	210.9	117.0	246.1	116.8	10.2	12.5	46.8	163.3	6.2	123.4	37.9	1279
1981	292.2	243.5	254.3	116.1	179.8	38.4	2.7	63.5	122.0	304.7	182.9	173.8	1974
1982	212.6	330.2	117.8	42.5	148.1	135.5	16.9	81.4	76.1	180.8	127.9	315.4	1785
1983	263.5	116.1	243.7	106.6	241.2	89.8	124.6	10.3	13.9	163.2	139.2	208.6	1721
1984	179.5	199.0	51.6	81.3	27.4	51.4	42.4	36.8	126.1	90.5	326.5	349.4	1562
1985		74.5	227.4	123.9	24.7	128.6	245.7	8.7	104.5	87.1	44.2	47.1	
1986	306.4	267.7	154.3	78.4	308.6	35.7	59.4	127.2	62.7	142.1	207.5	242.6	1993
1987	295.2	101.9	174.5	58.9	79.9	197.1	301.7	72.4	32.1	158.0	201.6	334.8	2010
1988	184.8	127.2	141.8	177.0	39.8	4.1	13.6	3.2	18.2	74.7	73.6	273.2	1131
1989	455.7	182.1	153.7	49.9	68.5	134.7	64.2	333.4	31.4	40.7	84.6	243.5	1842
1990	198.9	171.9	174.4	79.7	288.3	147.9	81.0	91.4	97.5	15.7	181.2	138.6	1667
1991	372.1	93.7	146.9	71.2	49.0	92.2	86.5	3.3	49.1	70.4	164.5	180.0	1379
1992	360.7	445.0	128.0	371.0	232.2	101.6	21.0	83.9	242.8	117.6	89.7	436.0	2630
1993	182.3	255.9	151.7	25.7	89.1	14.8	52.9	43.8	99.5	56.4	184.0	114.8	1271
1994	180.8	149.0	124.3	26.2	95.6	83.3	104.5	0.0	147.7	128.7	31.7	281.4	1353
AVER.	264.3	189.4	148.3	100.4	119.8	78.5	71.0	64.2	87.4	101.2	146.9	219.6	1604

PRECIPITACION MENSUAL

MONTHLY RAINFALL													
STATION:		52NP	SAN ISIDRO										
YEAR													(Unit : mm)
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
1943													
1944													
1945													
1946													
1947													
1948													
1949													
1950													
1951													
1952													
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1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													132.5
1976	209.2	120.2	119.9	32.6	82.3	53.1	4.1	16.3	214.8	165.1	112.7	385.6	1516
1977	408.7	167.3	255.1	85.3	96.5	14.4	11.8	134.5	49.3	71.0	288.1	399.4	1981
1978	236.4	215.5	133.1	25.3	164.0	225.4	30.7	43.4	106.9	64.8	183.2	437.9	1867
1979	325.1	413.4	148.9	53.1	164.1	1.0	22.0	6.7	85.4	144.5	106.0	93.3	1564
1980	200.6	292.1	176.6	363.7	356.6	8.2	9.4	77.0	149.5	47.4	207.0	87.9	1976
1981	323.4	253.3	220.4	124.2	475.9	64.2	9.0	119.3	137.9	419.3	180.7	269.4	2597
1982	144.0	234.9	221.0	48.4	177.4	266.7	51.9	134.4	192.5	219.8	249.2	341.7	2282
1983	316.3	269.2	316.9	156.6	407.7	67.4	202.3	19.2	21.2	128.4	199.3	135.8	2240
1984	339.5	239.1	230.4	71.1	39.9	57.9	86.9	65.5	52.4	172.6	365.9	591.7	2313
1985	189.6	122.6		227.2	42.2	114.7	308.9	81.0	87.4	102.8	52.9	89.1	
1986	176.3	314.6			181.5	52.9	98.9	109.1	117.8	90.0		266.8	
1987	646.7	100.7	162.6	102.2	69.9	218.9	240.6	77.2	33.4	99.1	281.9	365.4	2399
1988	236.8	117.8	204.2	157.7	31.0	10.2	29.3	0.0	30.8	126.9	79.3	276.0	1300
1989	358.8	183.6	184.2	66.1	39.9	120.5	50.6	288.3	28.8	29.9	58.1	214.3	1623
1990	379.6	386.2	223.7	155.2	411.1	156.4	85.8	53.6	118.2	132.4	217.9	96.1	2416
1991	436.6	84.1	265.0	64.2	174.5	134.1	127.5	8.0	88.0	208.1	226.3	436.5	2253
1992	461.3	432.4	201.6	511.8	282.7	141.4	53.1	146.7	244.3	118.5	184.5	539.0	3319
1993	260.0	215.3	183.7	26.0	103.6	7.8	65.5	50.5	145.4	51.4	318.8	299.7	1728
1994	267.0	275.9	143.2	72.2	41.2	126.5	91.1	0.0	164.2	188.3	96.2	287.4	1753
AVER.	311.5	233.6	199.4	130.2	175.9	96.9	83.1	75.3	108.9	135.8	189.3	287.3	2066

PRECIPITACION MENSUAL

MONTHLY RAINFALL														
STATION :	SSNP		PORTACHUPELO											(Unit : mm)
YEAR	MONTH												ANNUAL	
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.		
1943														
1944														
1945														
1946														
1947														
1948														
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1972														
1973														
1974														
1975												140.4	129.1	
1976	58.9	187.0	65.0	29.3	66.5	24.3	0.3	9.4	102.8	169.1	161.6	350.1	1224	
1977	77.1	80.7	235.9	54.3	67.6	22.6	16.9		64.4	58.0	193.0	128.4		
1978	261.1	142.4	205.4	26.2	149.7	90.8	34.3	17.8	61.7	125.8	301.8	278.8	1696	
1979	349.8	425.9	39.2	52.3	70.8	0.0	24.3	29.6	79.1	40.4	229.1	58.5	1399	
1980	230.7	152.4	150.4	306.3	170.0	0.0	2.1							
1981					89.5	26.0	3.0	82.0	39.4	251.4	198.6	298.5		
1982	124.2	304.4	193.2	53.5	131.4	264.3	21.1	85.3	129.1	143.5	144.4	382.8	1977	
1983	123.0	111.2	391.7	135.9	138.0	11.3	121.1	3.8	39.7	144.4	123.0	249.9	1593	
1984	233.3	181.1	229.4	105.7	45.9	52.7	47.2	35.5	55.7	98.4	212.8	354.8	1653	
1985	176.1	122.2	91.1	78.6	23.9	73.6	217.4	119.2	147.0	99.8	33.0	164.5	1346	
1986	116.9	400.1	124.8	113.6	371.0	60.4								
1987								66.5	58.1	131.5	269.8	375.7		
1988	141.4	112.4	190.7	128.4	8.5	10.5	65.8	2.8	21.1	103.3	117.1	224.7	1127	
1989	370.3	222.2	70.0	39.4	58.3	93.1	49.0	317.6	27.5	36.6	62.3	209.9	1556	
1990	211.6	225.8	227.2	108.8	314.9	162.2	73.5	59.5	106.3	59.1	185.0	139.8	1874	
1991	454.3	65.5	179.9	49.2	94.2	124.7	104.2	6.0	39.2	82.1	254.1	180.8	1634	
1992	596.1	430.3	238.1	258.7	210.0	83.1	30.7	127.6	279.0	92.3	209.2	343.1	2898	
1993	242.7	198.5	136.7	15.6	137.3	25.7	122.4	60.9	36.2	80.5	306.0	176.3	1539	
1994	169.4	210.4	87.4	31.7	66.0	164.6	71.0	0.0	98.0	154.7	64.2	316.8	1434	
AVER.	231.6	210.1	168.0	93.4	123.0	71.7	59.1	64.0	81.4	110.1	178.1	242.4	1639	

PRECIPITACION MENSUAL

MONTHLY RAINFALL													
STATION:		56NP	LA BELGICA										
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	(Unit: mm) ANNUAL
1943													
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1953													
1954		114.5	98.3	169.1	129.2	195.2	17.0	0.0	126.6	45.7	0.0	64.8	
1955	596.2	79.8	94.3	164.6	17.1	0.0	0.0	0.0	0.0	0.0	114.9	140.1	1207
1956	275.9	164.2	60.6	161.7	35.7	57.0	78.9	25.8	82.0	221.2	46.0	112.2	1321
1957	64.5	168.4	37.0	71.5	103.2	132.4	149.5	81.6	192.8	198.3	133.4	343.5	1676
1958	101.9	260.6	123.1	109.7	25.5	293.2	35.1	0.0	268.8	174.5	168.7	382.3	1943
1959	193.4	74.2	236.3	188.6	30.9	115.2	88.9	6.3	17.5	74.9	87.6	113.5	1227
1960	162.1	139.0	157.9	188.9	30.6	35.9	107.2	44.1	114.2	39.9	182.7	63.5	1266
1961	283.9	290.4	102.4	233.1	140.8	84.2	73.6	0.0	20.5	107.2	51.2	178.7	1566
1962	122.9	55.5	88.8	50.6	35.8	24.2	1.0	22.8	108.4	40.8	39.4	167.8	758
1963	188.7	215.8	108.1	50.2	44.4	118.5	45.1	13.8	51.2	79.5	139.8	164.7	1220
1964	190.2	246.6	235.8	23.5	83.5	39.0	5.9	1.0	198.7	144.9	192.5	275.2	1637
1965	151.0	62.1	49.8	78.6	125.4	26.4	94.4	26.4	13.3	164.2	155.4	163.1	1110
1966	267.5	259.7	127.7	22.6	103.4	97.0	4.4	0.0	116.9	191.6	78.3	351.7	1621
1967	403.7	101.8	128.8	148.9	161.3	112.8	70.3	62.1	58.9	85.2	75.5	103.6	1513
1968	294.3	189.7	29.3	53.1	27.1	16.7	0.0	69.8	28.2	76.9	76.0	314.8	1176
1969	237.1	102.4	42.2	56.3	59.8	148.8	79.0	0.0	73.1	146.0	149.7	143.0	1237
1970	102.2	80.1	30.7	105.8	47.1	41.3	29.3	4.7	2.3	124.1	57.8	170.7	796
1971	115.9	78.5	96.3	86.6	18.3	35.5	6.3	39.9	69.1	34.1	39.0	43.8	663
1972	134.4	251.0	144.3	186.8	51.3	87.8	21.7	165.7	50.1	135.1	97.3	179.8	1505
1973	94.0	165.4	106.7	63.2	32.4	31.8	30.8	16.8	4.9	122.0	212.4	267.6	1148
1974	161.3	73.1	161.1	157.6	41.9	43.0	38.2	38.2	11.3	238.6	188.4	222.8	1376
1975	130.0	67.7	117.3	61.1	22.1	113.9	189.0	28.7	129.2	24.0	209.3	227.7	1320
1976	119.2	110.4	105.0	23.8	83.3	17.5	0.0	22.3	194.6	133.0	83.0	254.6	1147
1977	362.3	147.8	184.4	44.5	75.8	5.4	8.9	104.3	38.3	27.5	170.6	194.2	1364
1978	184.1	115.3	143.5	12.7	98.2	115.6	8.0	44.0	62.1	88.8	205.3	308.1	1386
1979	235.6	242.8	40.4	124.8	82.6	0.0	15.1	4.9	84.4	30.1	122.9	86.0	1070
1980	183.0	211.9	105.6	258.6	146.3	22.1	10.7	52.4	168.9	8.8	186.9	86.2	1441
1981	367.0	153.4	264.0		261.2	58.0	13.6	102.7	125.4	472.8	159.4	221.6	
1982	199.6	263.1	127.1	112.0	153.8	182.9	23.8	49.1	55.8	187.5	134.0	231.0	1720
1983	258.5	111.5	252.6	119.5	292.6	44.7	127.3	39.3	21.5	472.8	159.4	221.6	2121
1984	138.5	164.5	95.5	59.8	31.2	92.3						82.4	
1985	75.7		138.1	188.5	22.1	87.7	252.6	4.3	87.1	19.6	72.3	107.8	
1986	244.7	259.2	169.0	121.1	283.2	32.0	49.2	72.3	63.7	123.7	158.9	151.9	1729
1987	307.0	127.2	189.7	69.9	76.8	237.9	337.5	84.5	13.2	130.0	212.2	289.1	2075
1988	191.5	127.5	130.4	134.0	31.3	18.0	22.7	0.0	26.7	103.8	147.6	211.4	1145
1989	343.1	130.7	101.8	199.7	20.6	112.5	35.7	261.2	17.0	58.7	39.4	197.4	1518
1990	217.5	130.9	176.5	90.2	228.6	129.4	112.0	126.7	122.1	31.5	97.3	48.5	1511
1991	349.9	108.0	182.2	99.7	88.8	130.2	79.1	6.5	75.0	51.2	142.0	273.7	1586
1992	343.1	334.6	137.5	391.6	206.7	82.3	28.4	90.4	210.1	123.2	128.2	476.7	2553
1993	212.7	263.5	105.0	4.6	65.9	37.0	51.7	84.9	174.0	77.0	289.9	188.4	1555
1994	161.0	235.0	69.7	38.0	23.9	34.0	115.5	0.0	103.0	156.0	35.0	261.7	1233
AVER.	219.1	161.9	124.3	113.1	88.8	80.2	61.4	44.9	84.5	119.1	126.0	197.2	1417

PRECIPITACION MENSUAL

MONTHLY RAINFALL														
STATION :	58NP		TEREVINTO											
YEAR													(Unit : mm)	
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	MONTH	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
1943														
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1977									66.2	26.3	201.7	138.8		
1978	141.9	63.8	68.6	67.5	42.1	120.9	4.6	16.2	50.4	39.6	70.3	158.5	844	
1979	256.3	165.2	80.2	66.0	127.7	0.0	20.7	2.1	54.8	30.7	73.7	59.9	937	
1980	132.0	157.6	111.3	182.4	98.4	10.6	15.5	40.2	91.2	25.1	162.3	90.2	1117	
1981	234.4	130.5	68.1	137.7	216.0	17.9	1.8	33.5	59.8	247.3	98.8	285.8	1532	
1982	105.0	216.6	103.9	37.7	128.1	180.9	29.1	45.0	32.1	149.7	161.7	139.0	1329	
1983	196.6	61.0	165.5	89.9	169.8	38.3	83.5	13.0	8.0	81.1	172.4	134.7	1214	
1984	184.3	82.2	34.1	79.2	44.7	33.3	34.5	58.5	46.4	87.7	254.7	271.1	1211	
1985	93.1			168.1	38.8	64.0	99.1	34.0	60.8	60.5	0.0	99.3		
1986	240.9	280.2	121.3	113.9	147.3	11.7	65.9	109.5	79.9	52.5	110.3	212.3	1546	
1987	442.6	113.9	211.0	76.1	110.8	119.0	238.9	68.7	36.2	178.0	228.1	396.5	2220	
1988	191.6	102.5	228.5	120.0	47.0	17.4	39.1	14.2	29.0	90.4	69.1	262.3	1211	
1989	237.0	177.8	232.9	133.5	64.3	147.7	84.0	246.0	17.1	35.0	84.0	370.3	1830	
1990	183.8	260.4	121.4	118.9	261.5	119.1	87.2	76.0	150.4	91.6	159.2	231.5	1861	
1991	441.7	93.7	221.4	182.8	128.5	120.3	117.1	5.4	73.1	207.2	201.0	214.4	2007	
1992	296.4	443.9	198.0	510.2	261.7	182.6	30.5	82.9	247.9	83.0	133.9	407.9	2879	
1993	113.3	475.8	66.9	96.9	118.3	25.2	87.3	87.1	115.2	164.9	325.8	256.1	1933	
1994	170.9	247.8	118.0	91.7	55.5	31.5	51.1	1.5	140.0	153.0	106.1	327.9	1495	
AVER.	215.4	192.1	134.4	133.7	121.2	73.0	64.1	54.9	75.5	100.2	145.2	225.4	1573	

PRECIPITACION MENSUAL

MONTHLY RAINFALL													
STATION :		PUENTE EISENHOWER											
YEAR	59NP												(Unit : mm)
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
1943													
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1977										68.0		98.1	
1978	220.0	85.7	138.8	33.4	106.5	113.9	9.9	8.9	93.0	108.5	273.5	181.5	1374
1979	342.7	464.8	18.7	102.3	37.5	0.2	20.8	8.8	72.5	77.9	134.4	90.7	1371
1980	328.0	186.7	143.1	329.7	80.1	12.8	1.4	49.4	152.7	2.2	189.0	71.2	1546
1981	264.7	132.2	192.6	156.5	211.5	47.3	19.5	92.4	125.7	345.2	192.6	243.1	2023
1982	103.5	318.2	122.8	78.5	217.7	258.2	26.2	72.3	119.7	148.5	143.8	323.6	1933
1983	326.6	137.8	198.8	128.8	286.5	56.4	87.4	11.6	17.6	128.2	156.6	276.0	1812
1984	262.8	238.1	189.7	87.9	29.2	52.0	44.8	27.7	26.2	101.8	283.7	366.4	1710
1985	91.1	166.3	66.0	128.6	18.9	222.5	236.7	5.1	111.1	105.3	101.9	105.4	1359
1986	188.1	279.7	162.3	102.6	418.9	20.1	91.1	115.3	97.4	117.0	198.6	171.5	1963
1987	492.3	172.0	244.3	41.1	98.4	131.4	326.0	154.5	30.3	192.2	316.5	355.9	2555
1988	186.1	153.8	178.2	225.9	30.0	2.7	13.0	0.8	18.6	130.4	88.5	268.6	1297
1989	433.5	255.6	163.3	94.0	34.0	90.0	39.4	332.9	22.6	36.9	96.1	323.7	1922
1990	201.6	201.2	188.4	168.8	282.0	194.9	75.5	57.6	99.2	27.6	268.0	237.0	2002
1991	484.5	107.1	128.3	65.6	49.3	68.0	78.9	0.0	38.2	100.8	282.8	193.3	1597
1992	581.7	428.8	130.9	303.2	287.2	90.3	56.6	102.1	296.2	125.7	174.7	480.1	3058
1993	226.4	249.7	135.6	10.9	57.1	64.1	61.3	23.1	49.1	100.1	251.4	131.7	1361
1994	180.8	197.4	141.9	49.2	106.2	152.6	63.3	4.8	126.4	175.5	76.9	189.5	1465
AVER.	289.1	222.1	149.6	123.9	138.3	92.8	73.6	62.8	88.0	116.2	189.9	228.2	1785

PRECIPITACION MENSUAL

MONTHLY RAINFALL														
STATION: OKINAWA I (CAICO)														
YEAR													(Unit : mm)	
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	MONTH	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
1943														
1944														
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1977	250.2	79.7	244.8	55.3	22.3	20.0	50.1	105.1	65.0	47.1	159.1	100.7		1199
1978	85.0	69.3	68.1	33.4	84.6	113.9	9.9	8.9	93.0	108.5	133.5	181.5		990
1979	221.2	33.1	18.7	102.3	37.5	0.2	20.8	8.8	72.5	77.9	134.4	90.7		818
1980	227.8	150.1	105.6	53.3	80.1	12.8	1.4	49.4	152.7	2.2	189.0	71.2		1096
1981	176.7	114.0	106.6	156.5	90.1	47.3	19.5	92.4	125.7	203.0	192.6	243.1		1568
1982	103.5	222.8	122.8	26.7	217.7	24.6	26.2	72.3	119.7	97.5	143.8	323.6		1501
1983	220.7	137.8	116.1	128.8	118.7	52.9	42.9	11.6	17.6	128.2	156.6	276.0		1408
1984	172.5	187.1	189.7	87.9	29.2	52.0	44.8	27.7	26.2	101.8	283.7	366.4		1569
1985	91.1	122.8	14.0	65.5	18.9	222.5	236.7	5.1	111.1	105.3	101.9	105.4		1200
1986	79.3	139.0	162.3	102.6	244.4	20.1	51.2	82.5	50.9	117.0	198.6	171.5		1419
1987	266.4	100.3	112.1	25.4	27.5	50.9	256.0	102.8	30.3	192.2	316.5	355.9		1836
1988	155.6	127.1	83.6	94.3	30.0	2.7	13.0	0.8	18.6	130.4	88.5	268.6		1013
1989	173.3	255.6	163.3	94.0	23.5	63.3	7.7	0.0	22.6	36.9	96.1	323.7		1260
1990	201.6	201.2	38.1	115.0	1.4	0.3	6.7	0.1	41.0	27.6	268.0	237.0		1138
1991	439.5	107.1	128.3	65.6	2.9	0.0	0.7	0.0	38.2	100.8	282.8	193.3		1359
1992	380.1	341.7	183.3	248.9	87.7	16.5	7.5	87.4	207.0	49.8	92.0	241.0		1943
1993	110.9	156.0	69.6	13.3	29.9	0.0	60.4	37.5	19.4	31.0	122.9	38.9		690
1994	117.6	180.9	50.8	15.1	137.1	202.4	42.0	0.0	15.0	75.4	40.5	142.3		1019
AVER.	192.9	151.4	109.9	82.4	71.3	50.1	49.9	38.5	68.1	90.7	166.7	207.3		1279

PRECIPITACION MENSUAL.

MONTHLY RAINFALL															
STATION: MIH PUERTO PARAS															
YEAR													(Unit : mm)		
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	MONTH		JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
1943															
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1977	184.4	72.1	64.2	37.7	70.8	4.6	7.1	101.0	87.1	87.1	117.7	88.7	92.3		
1978	216.7	64.2	169.7	74.6	41.5	2.5	2.2	32.8	43.0	71.1	161.5	147.1	102.7		
1979	559.9	176.9	70.5	109.0	90.2	0.0	37.1	38.8	81.2	20.0	94.3	67.8	1346		
1980	115.5	201.5	112.7	207.7	134.2	59.8	24.9	67.1	100.2	47.6	113.1	57.6	1242		
1981	213.8	154.1	235.8	119.8	89.3	10.5	4.4	26.7	139.7	177.7	57.2	330.7	1560		
1982	209.3	345.9	130.5	54.5	75.7	30.4	9.5	66.6	98.5	254.1	204.5	142.9	1622		
1983	385.7	84.9	270.3	156.7	82.7	65.9	128.8	24.6	10.5	174.1	192.3	114.5	1691		
1984	274.7	51.5	91.3	70.8	30.0	19.2	41.7	11.9	63.5	129.2	293.5	317.9	1397		
1985	143.2	45.7	168.1	125.1	35.1	0.6	132.8	11.0	107.7	43.1	119.7	193.4	1126		
1986	78.1	228.8	101.7	113.4	122.7	34.2	11.0	42.6	72.7	47.9	198.3	182.5	1234		
1987	255.3	131.0	227.7	167.6	87.3	38.0	46.8	47.4	19.1	120.0	168.8	321.7	1631		
1988	106.2	72.3	145.0	69.1	38.0	4.6	10.8	8.8	31.6	43.0	88.5	234.1	852		
1989	154.3	99.3	146.8	120.8	80.2	49.2	11.3	36.8	20.2	12.5	158.6	262.7	1153		
1990	87.3	142.9	72.6	77.4	137.8	33.7	18.3	72.5	31.5	40.6	193.6	165.0	1073		
1991	165.4	127.1	189.7	91.4	111.6	72.5	70.3	5.7	39.2	152.8	162.1	162.9	1351		
1992	303.3	235.0	140.4	318.3	266.5	58.6	55.3	106.5	175.2	62.6	68.3	130.1	1920		
1993	83.5	46.5	0.0	8.4	45.4	0.0	58.8	20.7	27.8	14.8	137.9	192.6	636		
1994	178.4	237.7	36.0	60.4	58.6	50.9	69.0	48.0	41.1	111.5	9.0	75.7	976		
AVER.	206.4	140.0	131.8	110.2	88.8	29.7	41.1	42.8	66.1	89.4	141.1	177.1	1264		

PRECIPITACION MENSUAL

MONTHLY RAINFALL													
STATION:		62NP MINEROS											
YEAR	MONTH												ANNUAL
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
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1974													
1975												172.7	103.7
1976	159.5	114.3	97.3	12.1	116.5	3.5	0.0	30.9	138.7	135.0	181.2	249.5	1239
1977	406.1	96.5	187.7	81.6	21.6	24.5	12.7	157.7	105.1	77.6	197.0	167.1	1535
1978	207.7	143.5	106.3	9.0	124.5	92.5	2.8	19.2	95.2	89.4	275.5	194.4	1360
1979	409.0	449.5	71.3	85.0	9.7	0.0	27.2	21.4	87.5	33.5	193.7	64.3	1452
1980	249.7	157.0	136.2	261.1	198.2	37.6	18.1	26.0	73.2	61.4	122.0	47.5	1388
1981	436.0	123.9	158.8	167.3	186.7	21.2	9.0	79.6	119.6	316.8	118.5	156.8	1894
1982	66.9	357.7	133.7	38.1	137.2	295.6	7.8	70.4	136.1	151.9	130.6	372.0	1898
1983	196.1	242.3	292.2	82.9	292.0	60.0	47.3	25.0	7.5	85.0	221.0	110.0	1661
1984	239.0	215.0	63.0	49.5	48.0	51.0	7.5	27.0	63.7	130.0	379.4	389.7	1663
1985	106.4	159.4	75.0	141.7	6.6	151.5	220.7	3.5	104.0	56.1	66.7	100.7	1192
1986	213.6	247.1	82.3	94.0	373.7	3.2	65.7	131.8	115.7	79.9	104.0	152.2	1663
1987	378.2	72.3	330.1	17.5	69.1	98.3	0.0	131.2	18.0	113.9	334.6	300.9	1864
1988	147.1	111.9	120.0	108.3	17.4	8.9	3.0	22.6	24.5	82.3	157.1	113.9	917
1989	397.8	188.3	116.2	64.7	14.4	49.8	36.2	202.5	37.3	75.1	151.5	325.5	1659
1990	295.0	215.4	168.0	104.7	216.2	185.4	54.5	51.1	23.5	55.8	192.4	242.1	1804
1991	563.0	89.2	122.0	67.6	41.4	136.3	38.3	0.8	32.5	45.6	160.4	232.7	1530
1992	391.2	347.6	241.7	331.2	207.6	46.3	13.5	90.7	282.4	68.2	161.5	364.3	2546
1993	161.3	178.1	117.5	21.5	33.9	11.1	48.2	32.9	9.9	24.7	179.8	153.7	973
1994	151.3	230.8	120.8	11.7	95.9	177.4	40.1	3.2	56.4	162.8	66.5	213.5	1330
AVER.	272.4	196.8	144.2	92.1	116.3	76.5	34.3	59.3	80.6	97.1	178.3	202.7	1556

PRECIPITACION MENSUAL

MONTHLY RAINFALL													
STATION : 5806 SANTA CRUZ - TROMPILLO													
YEAR	MONTH												ANNUAL
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1943	135.0	208.5	62.6	113.0	44.0	84.1	17.5	23.0	26.5	77.8	63.6	363.9	1220
1944	38.5	127.3	105.8	51.3	34.0	89.7	7.1	74.3	6.2	233.8	25.5	113.3	907
1945	7.9	0.0	301.1	82.4	33.5	11.6	101.6	1.0	88.3	33.1	93.5	172.9	927
1946	112.3	234.7	247.4	54.4	285.3	113.7	80.9	13.8	149.6	68.7	89.3	307.5	1758
1947	280.2	139.2	195.5	71.7	263.7	61.5	195.5	65.4	158.8	43.9	128.8	231.5	1836
1948	275.2	215.1	148.8	16.3	7.5	59.0	340.3	40.8	41.0	202.0	77.3	299.9	1723
1949	180.3	98.8	146.8	121.7	32.2	233.3	26.9	0.7	0.0	69.1	163.3	280.9	1354
1950	163.6	70.5	207.4	82.9	135.0	104.3	13.6	3.0	48.2	167.1	61.2	70.9	1128
1951	234.3	133.7	39.9	54.1	51.7	85.4	0.4	74.9	93.1	137.1	130.9	81.1	1117
1952	223.6	190.1	67.0	22.9	51.2	176.9	1.7	7.7	130.9	115.0	149.7	85.3	1222
1953	69.6	64.0	189.5	229.2	173.4	21.8	12.7	0.0	35.8	126.8	184.6	100.3	1208
1954	196.6	98.8	221.5	184.5	132.8	70.3	44.8	18.0	81.8	25.0	31.0	79.0	1184
1955	392.2	130.9	105.4	125.5	70.2	95.9	149.4	23.3	0.0	56.3	231.0	157.4	1538
1956	321.3	77.7	93.1	252.4	27.6	49.5	47.7	2.1	33.1	101.6	81.7	72.8	1161
1957	114.6	185.8	23.0	100.9	61.0	119.9	136.0	69.5	127.4	215.0	71.2	267.6	1492
1958	85.0	147.7	54.3	100.4	84.4	96.7	21.7	12.2	180.0	68.5	35.9	378.5	1265
1959	210.6	78.3	212.2	146.2	31.4	53.0	75.2	33.0	9.4	81.8	91.7	131.1	1154
1960	107.0	107.6	79.1	151.7	38.6	22.2	36.4	56.6	66.8	83.9	96.9	86.6	933
1961	225.8	274.4	107.9	156.0	99.9	25.1	26.8	7.2	18.5	65.3	71.2	154.4	1233
1962	90.6	105.4	88.1	39.1	48.0	15.8	13.6	15.7	111.3	17.2	15.6	259.5	820
1963	85.2	132.9	72.7	61.2	40.7	68.0	54.3	5.4	26.8	62.3	155.3	84.6	849
1964	145.7	143.2	220.1	38.3	20.9	40.1	3.6	66.8	73.6	126.2	184.6	116.8	1180
1965	156.0	46.5	89.7	52.7	63.9	20.0	65.7	33.5	71.6	235.1	63.6	197.7	1096
1966	88.1	157.9	140.0	11.7	103.7	106.2	3.2	1.5	36.5	164.0	181.2	50.1	1044
1967	376.8	103.2	61.5	48.8	99.1	107.0	123.2	134.0	36.7	11.0	43.8	90.1	1235
1968	210.2	180.2	7.9	38.3	17.0	15.5	8.7	52.8	2.0	28.1	92.5	264.7	918
1969	115.6	98.0	79.0	87.5	105.7	100.5	6.0	5.0	64.2	100.2	247.6	96.5	1106
1970	94.5	23.1	52.0	39.8	60.8	26.2	47.5	9.4	6.0	61.2	159.5	131.0	711
1971	143.8	89.1	46.3	61.5	33.4	49.3	13.6	38.4	55.4	32.3	68.0	216.7	848
1972	100.3	119.1	47.9	175.1	51.4	131.6	8.0	138.0	8.7	94.1	104.4	94.6	1073
1973	41.1	118.7	67.3	13.0	70.2	21.2	26.7	29.9	0.2	134.2	133.7	188.0	844
1974	106.6	61.9	121.7	127.0	13.9	63.7	109.0	40.5	0.3	329.6	190.5	178.5	1343
1975	118.4	31.4	61.6	130.2	40.8	149.2	146.4	49.2	95.3	15.4	251.5	227.9	1317
1976	127.9	89.0	95.6	18.9	74.2	32.9	1.1	14.9	191.2	91.2	70.7	279.7	1087
1977	596.0	108.5	179.7	82.0	99.7	9.6	38.8	208.3	49.4	45.9	257.6	113.1	1789
1978	217.7	65.2	169.7	74.6	53.1	124.8	2.2	38.0	43.0	71.1	163.2	147.1	1170
1979	366.1	176.9	70.5	109.0	90.2	0.0	37.1	38.8	81.2	20.0	94.3	69.2	1153
1980	118.1	212.9	122.7	222.5	154.8	61.8	38.1	83.9	100.2	49.2	113.1	58.0	1335
1981	215.8	179.0	235.8	219.8	245.5	30.2	4.4	88.1	139.7	253.9	60.8	336.8	2010
1982	213.9	450.1	131.5	54.5	244.7	195.2	37.1	66.6	98.7	254.1	204.5	144.7	2096
1983	395.7	94.9	270.3	166.7	228.3	78.1	144.0	24.6	10.5	174.1	242.3	116.5	1946
1984	294.7	66.1	91.5	70.8	37.0	47.7	54.2	33.1	97.8	129.2	293.5	330.5	1546
1985	143.2	49.7	258.1	182.2	35.1	64.2	172.3	31.0	107.7	43.1	119.7	197.5	1404
1986	78.1	228.8	111.7	113.4	162.7	85.9	147.0	73.9	177.2	47.9	201.3	189.1	1617
1987	260.0	147.9	227.7	167.6	87.3	157.7	205.8	47.4	19.1	120.0	168.8	325.0	1934
1988	179.9	92.3	155.0	109.1	48.0	9.6	20.9	8.8	31.6	75.0	88.5	236.1	1055
1989	191.3	199.3	146.8	130.8	80.2	159.6	68.8	86.2	27.2	12.5	158.6	265.3	1530
1990	87.3	142.9	72.6	77.4	199.3	115.3	68.3	72.5	109.7	40.6	193.6	167.4	1347
1991	337.0	137.1	189.7	108.4	111.6	92.5	73.5	5.7	44.2	152.8	162.1	164.9	1580
1992	193.7	313.7	114.5	413.5	183.8	132.6	47.1	100.2	234.0	71.1	149.4	295.6	2249
1993	67.5	238.1	84.8	30.1	87.9	13.5	68.6	57.9	120.6	42.6	222.4	143.0	1177
1994	102.5	153.2	58.9	29.9	29.1	11.8	19.2	3.4	117.8	84.9	33.1	246.9	891
AVER.	181.5	137.3	126.0	104.3	90.0	75.2	61.8	42.9	70.9	99.3	130.1	181.9	1301

PRECIPITACION MENSUAL

MONTHLY RAINFALL													(Unit : mm)
STATION : 6INP SAAVEDRA													
YEAR	MONTH												ANNUAL
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1943													
1944													
1945													
1946													
1947													
1948													
1949													
1950													
1951													
1952	347.1	250.6	58.2	17.6	17.6	157.2	0.0	68.4	55.6	37.8	162.1	184.9	
1953	245.9	42.9	177.2	55.6	177.5	40.5	5.0	0.0	114.2	162.1	119.0	106.2	1350
1954	240.7	83.4	116.6	65.8	70.8	83.6	2.5	2.5	37.8	111.5	223.3	136.8	1257
1955	555.4	96.0	144.1	86.1	65.7	40.4	63.4	0.0	78.4	50.6	58.1	131.7	982
1956	219.8	167.4	20.2	228.0	75.8	75.9	88.6	58.2	210.6	152.0	91.2	268.6	1474
1957	131.5	162.0	48.1	96.4	93.6	73.5	223.1	96.1	180.1	96.1	146.8	113.7	1656
1958	106.2	230.7	47.8	152.1	52.8	63.2	35.4	0.0	165.1	149.6	159.6	433.6	1461
1959	217.8	93.4	154.5	146.8	12.6	91.1	70.8	30.3	0.0	98.8	108.7	129.1	1596
1960	111.1	136.4	113.9	141.9	70.9	12.6	32.8	60.6	63.4	63.3	81.0	70.9	1154
1961	159.4	266.1	83.5	106.3	53.1	60.7	53.0	0.0	20.2	75.9	109.0	253.2	959
1962	174.8	131.8	157.0	22.7	30.3	15.1	5.0	47.9	65.8	97.3	66.6	191.8	1240
1963	127.0	213.3	144.7	40.6	33.0	40.6	7.6	7.6	40.6	78.7	132.0	169.9	1006
1964	132.0	237.0	195.6	66.0	38.1	15.2	5.0	35.6	81.3	190.5	147.3	154.9	1636
1965	281.9	159.8	71.1	106.7	86.4	5.0	139.7	35.6	2.5	180.0	96.5	228.6	1299
1966	177.8	132.1	137.2	7.6	86.4	68.6	0.0	0.0	96.5	144.7	93.9	170.2	1394
1967	281.9	127.0	53.3	63.5	106.7	170.2	96.5	27.9	10.2	45.7	38.1	111.8	1115
1968	134.6	180.3	15.2	40.6	2.5	43.2	33.0	91.4	25.4	119.4	78.7	307.3	1133
1969	114.3	96.5	71.1	73.7	76.2	0.0	20.3	17.8	44.5	68.6	170.2	63.5	1072
1970	73.7	109.2	33.0	33.0	48.2	73.7	7.6	7.6	2.5	83.8	53.3	96.5	817
1971	86.4	93.0	45.7	81.3	33.0	5.0	5.0	45.7	94.0	35.6	43.2	96.5	622
1972	180.3	208.3	99.1	38.1	78.7	38.1	17.8	120.5	26.1	150.8	135.1	229.5	664
1973	169.3	155.4	66.1	36.9	72.0	5.0	48.3	19.4	5.7	103.3	225.4	317.7	1322
1974	266.0	83.3	68.5	53.5	77.5	52.2	60.0	73.0	6.0	240.6	161.5	173.5	1225
1975	125.3	49.5	69.9	63.0	6.2	104.8	65.4	81.7	187.6	65.5	141.9	127.1	1316
1976	123.5	77.5	96.8	18.1	124.4	10.6	0.0	29.2	148.9	106.1	166.3	311.7	1088
1977	437.7	92.5	199.4	74.6	6.8	19.7	15.6	122.6	29.9	52.0	211.5	71.0	1213
1978	171.8	103.4	135.3	5.4	110.8	81.8	3.2	8.8	69.9	115.8	294.1	233.0	1333
1979	357.9	349.6	56.9	98.6	13.7	0.0	20.2	14.9	93.5	50.1	264.8	65.7	1386
1980	304.6	203.0	177.6	316.3	163.7	17.7	8.1	30.9	114.8	73.2	170.1	80.9	1661
1981	309.8	154.0	248.6	189.2	161.5	25.3	9.0	96.0	140.2	319.0	135.9	274.0	2063
1982	94.8	332.8	126.4	37.0	182.9	328.7	9.8	64.7	78.2	154.0	99.1	399.6	1908
1983	302.3	150.1	179.3	61.9	242.8	39.9	70.6	19.1	41.4	92.5	272.2	258.7	1731
1984	234.5	250.7	107.7	30.1	52.9	37.8	19.2	27.3	70.0	92.4	245.5	396.2	1564
1985	118.6	200.2	64.4	162.5	52.7	166.6	198.9	1.0	112.8	75.8	132.6	121.4	1408
1986	130.3	226.8	73.1	72.9	295.4	5.4	71.0	160.9	93.4	101.3	79.6	149.2	1459
1987	224.7	51.4	187.5	22.3	98.0	173.4	156.4	137.7	63.6	112.0	350.4	408.3	1986
1988	180.1	58.8	196.4	119.3	25.0	11.1	1.7	3.8	18.5	108.6	131.2	166.6	1021
1989	339.7	122.8	184.9	60.5	16.3	100.1	38.8	270.5	19.5	154.2	64.7	264.2	1636
1990	275.9	148.3	105.3	95.4	224.1	177.0	67.6	43.0	52.3	43.4	7.9	155.4	1636
1991	477.3	95.7	173.3	73.6	20.2	151.3	23.2	0.5	41.0	72.5	195.8	234.8	1559
1992	500.2	340.1	182.3	349.2	191.0	62.2	24.7	124.0	238.5	68.2	137.6	490.3	2708
1993	172.5	240.8	98.5	8.0	40.2	11.2	62.8	27.3	40.1	85.0	225.4	118.4	1130
1994	221.3	234.2	118.0	13.7	103.8	226.7	59.0	5.2	82.8	92.7	47.8	204.6	1410
AVER.	224.1	161.4	114.0	84.5	83.5	69.3	45.2	48.2	71.9	106.5	147.1	200.4	1358

PRECIPITACION MENSUAL

MONTHLY RAINFALL													
STATION : OKINAWA 2 (CF: TABOL-JICA)													
YEAR	MONTH												(Unit : mm)
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
1943													
1944													
1945													
1946													
1947													
1948													
1949													
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1968													
1969	100.8	111.6	97.5	80.5	63.3	103.1	45.7	0.0	71.5	68.7	133.1	194.8	1071
1970	94.2	37.3	92.0	5.0	0.0	0.0	0.0	15.0	22.0	23.0	139.0	156.0	584
1971	100.0	143.0	78.0	51.0	35.0	28.0	10.0	64.0	69.0	20.0	44.5	31.5	674
1972	231.5	134.5	125.0	73.6	75.3	33.8	46.5	125.8	34.0	126.5	95.0	193.5	1295
1973	112.0	151.0	44.0	8.0	31.0	18.0	56.0	35.0	3.5	101.0	124.0	258.0	942
1974	295.5	93.9	86.5	36.5	54.8	54.5	30.7	48.0	4.0	223.5	148.0	187.0	1263
1975	168.3	100.5	72.0	84.5	0.0	132.0	109.5	103.1	133.0	53.4	110.0	64.4	1131
1976	151.8	114.6	86.3	9.6	94.4	4.2	0.0	57.9	101.3	147.6	102.6	301.9	1172
1977	324.3	81.7	115.5	42.2	35.5	36.0	2.5	61.2	13.0	84.9	138.0	131.0	1066
1978	169.3	160.9	42.1	10.8	64.3	135.0	1.4	17.0	86.1	102.6	148.1	217.9	1156
1979	318.1	252.0	42.0	132.4	56.1	0.0	23.6	3.0	105.5	38.0	141.1	43.7	1156
1980	261.9	280.9	112.1	333.4	181.4	17.0	29.0	17.2	97.4	62.0	132.2	75.6	1600
1981	347.9	252.8	392.9	187.0	143.5	33.4	14.0	79.0	99.6	281.0	115.0	252.4	2199
1982	191.6	201.4	79.0	48.4	124.2	204.9	12.3	76.0	73.8	197.3	105.4	368.4	1683
1983	240.2	151.0	175.1	80.2	201.9	50.2	56.1	0.0	34.2	73.8	74.6	81.8	1219
1984	164.2	255.4	35.8	31.0	25.0	31.4	4.0	18.8	86.4	172.8	258.2	225.2	1308
1985	157.6	94.7	81.4	127.8	23.8	29.8	297.6	10.8	69.7	129.2	93.4	150.7	1267
1986	93.6	317.6	131.5	72.0	358.0	1.2	65.0	136.5	64.8	56.8	129.8	195.4	1622
1987	308.1	49.8	154.6	89.2	25.2	115.0	134.6	121.6	10.0	165.7	267.9	211.5	1653
1988	142.2	110.2	105.2	55.5	22.3	3.2	0.0	10.1	23.3	85.1	79.0	71.7	708
1989	218.4	157.5	76.0	61.7	2.0	55.6	64.5	205.0	24.0	15.0	86.3	265.3	1231
1990	267.3	102.0	152.0	111.8	295.2	160.0	83.5	41.4	88.0	149.0	98.7	161.4	1710
1991	166.0	242.0	155.0	90.0	77.0	66.0	50.0	0.0	116.0	123.0	115.0	68.0	1268
1992	380.0	393.0	98.0	291.0	194.0	52.0	4.0	80.0	215.0	50.0	139.8	361.7	2259
1993	85.0	159.5	105.3	0.0	19.7	1.4	36.5	28.2	19.2	21.5	134.9	126.0	739
1994	130.0	170.5	109.5	43.0	105.5	150.0	82.5	0.0	71.5	65.5	33.5	193.9	1155
AVER.	200.8	166.1	109.4	82.9	88.8	58.3	48.4	52.1	66.8	101.5	122.6	176.5	1274

PRECIPITACION MENSUAL

MONTHLY RAINFALL																																		
STATION :													COLONIA SAN JUAN DE YAPACANI (JICA/CAISY)																					
YEAR	MONTH												ANNUAL	(Unit : mm)																				
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.																						
1943																																		
1944																																		
1945																																		
1946																																		
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1954																																		
1955																																		
1956																																		
1957																																		
1958																																		
1959																																		
1960	229.4	100.9	78.7	100.7	277.5	52.6	92.6	85.1	44.3	143.6	209.9	156.4	1572																					
1961	379.7			161.7	205.0	76.4	157.6	61.1	77.2	187.0	159.1	230.1																						
1962	121.2	215.9	201.6	97.8	11.5	4.9	4.0	46.6	32.0	106.3	92.7	245.8	1180																					
1963	304.0	328.0	361.7	20.8	27.8	135.9	26.3	32.0	120.7	104.4	273.1	185.0	1920																					
1964	215.2	259.6	263.0	168.7	49.4	48.5	15.6	78.1	168.1	179.8	273.3	214.1	1933																					
1965	222.0	186.9	112.0	113.7	147.1	44.5	189.0	63.0	77.8	384.3	124.5	372.0	2037																					
1966	329.5	209.5	170.5	73.8	218.8	150.5	27.0	1.0	134.0	187.5	102.5	359.5	1964																					
1967	406.0	216.0	209.5	106.5	74.5	291.2	113.5	49.5	99.5	117.5	83.5	101.5	1869																					
1968	360.2	152.0	35.0	92.3	11.0	51.3	19.1	212.5	91.0	153.5	53.0	519.0	1750																					
1969	540.5	277.5	148.0	131.0	124.0	199.0	155.5	74.3	137.1	79.0	157.8	229.0	2253																					
1970	251.0	112.5	180.4	63.7	152.3	53.0	41.7	8.5	24.0	73.3	150.3	192.2	1303																					
1971	330.4	108.9	173.8	46.2	52.8	49.2	34.5	59.9	88.3	161.1	113.2	177.4	1396																					
1972	246.8	198.2	141.8	76.8	131.3	151.1	52.7	340.5	61.0	112.5	124.5	293.5	1931																					
1973	230.0	275.0	108.0	231.0	126.4	34.3	37.9	46.4	8.2	55.7	173.3	326.6	1653																					
1974	389.2	244.6	220.1	83.1	30.5	41.2	62.5	68.8	13.0	220.1	120.9	252.9	1747																					
1975	178.8	177.3	282.1	115.2	26.1	189.9	71.3	123.4	131.5	148.4	121.1	152.9	1718																					
1976	193.5	76.9	204.9	29.2	107.6	27.2	13.9	25.2	161.7	209.3	194.7	306.9	1551																					
1977	483.9	187.9	244.2	100.9	113.5	32.4	66.7	153.5	108.5	56.5	274.9	262.0	2085																					
1978	325.7	231.7	195.3	20.6	168.5	131.1	25.3	62.1	103.4	154.5	130.5	448.8	1998																					
1979	315.7	410.5	87.2	65.3	131.4	1.4	33.4	36.9	165.8	46.3	96.8	104.3	1495																					
1980	228.3	463.8	193.8	474.1	353.4	13.8	17.6	109.2	151.3	47.6	363.8	144.3	2561																					
1981	535.6	427.0	212.4	223.7	601.6	83.4	1.7	98.3	129.2	288.7	240.0	422.5	3264																					
1982	141.3	324.6	381.0	93.4	229.3	410.5	53.4	152.8	181.0	344.7	333.5	356.9	3002																					
1983	361.7	169.8	192.4	143.1	324.6	86.8	212.2	21.5	27.5	117.3	201.6	150.8	2009																					
1984	284.3	158.3	119.1	126.8	39.8	44.0	162.6	144.0	22.1	164.8	168.5	421.7	1856																					
1985	200.3	182.4	138.6	227.7	127.1	119.3	200.7	12.8	78.8	22.5	113.1	137.5	1564																					
1986	146.8	284.2	90.2	156.5	153.0	76.7	57.7	81.4	121.4	48.0	187.4	325.1	1728																					
1987	478.3	107.6	150.4	72.9	147.6	177.0	294.0	37.7	6.6	109.0	204.1	314.9	2100																					
1988	131.5	65.7	154.0	142.7	23.1	4.3	18.8	0.0	25.3	137.9	59.9	252.7	1016																					
1989	401.0	173.9	232.5	105.5	46.5	30.0	76.5	153.6	12.8	60.0	23.4	249.3	1565																					
1990	364.1	287.8	61.6	39.2	313.9	245.6	55.8	79.1	45.8	80.7	280.1	142.4	1996																					
1991	427.8	91.5	150.3	90.7	160.0	73.5	63.0	54.9	72.6	136.8	170.8	267.5	1759																					
1992	353.2	473.7	264.6	420.6	333.5	179.7	48.0	119.4	182.0	86.8	146.3	554.9	3163																					
1993	213.4	220.4	120.2	45.4	62.5	5.1	38.3	29.3	14.8	55.0	59.9	219.8	1084																					
1994	237.8	224.1	196.1	33.4	64.0	93.6	26.2	2.6	61.8	109.3	65.4	245.1	1359																					
AVER.	301.7	224.3	178.7	122.7	147.6	97.4	73.3	77.9	85.1	134.0	161.4	266.7	1864																					

4. Día de Lluvia Mensual

DIA DE LLUVIA MENSUAL

NUMBER OF RAINY DAYS													
STATION: GINP SAAVEDRA													
YEAR	MONTH												ANNUAL TOTAL
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1943													
1944													
1945													
1946													
1947													
1948													
1949													
1950													
1951									3	5	5	8	11
1952	15	15	7	3	3	5	0	0	2	7	5	7	69
1953	10	7	9	5	7	5	1	1	5	6	5	7	68
1954	13	8	5	6	6	4	1	0	6	3	7	5	64
1955	15	10	12	4	5	5	2	1	0	6	7	8	75
1956	19	5	3	9	7	6	6	3	3	5	4	8	78
1957	9	10	2	3	8	4	8	6	5	8	7	10	80
1958	7	7	8	6	8	6	3	0	5	5	6	14	75
1959	11	11	8	8	3	5	4	3	0	3	7	6	69
1960	10	12	9	6	4	2	3	7	2	5	6	5	71
1961	9	12	5	10	4	6	4	0	2	5	4	11	72
1962	9	7	7	4	3	2	1	6	4	5	3	7	58
1963	9	7	14	5	5	3	2	1	3	3	9	8	69
1964	7	9	10	6	4	2	2	1	9	6	7	5	68
1965	10	9	5	6	6	2	6	3	1	9	6	14	77
1966	14	10	11	1	5	5	0	0	2	5	4	4	61
1967	9	7	4	3	5	5	5	3	1	3	4	11	60
1968	10	10	4	4	1	3	2	6	2	6	6	11	65
1969	6	6	3	3	5	0	1	3	3	2	9	8	49
1970	6	9	6	5	5	8	1	1	1	5	3	9	59
1971	9	7	4	5	4	2	1	3	5	3	6	4	53
1972	9	9	5	2	5	4	1	13	4	8	11	19	90
1973	14	10	5	5	7	4	2	5	1	8	11	17	89
1974	18	15	11	8	5	8	5	5	2	15	7	13	112
1975	14	13	11	9	6	8	5	4	8	8	11	15	112
1976	17	12	9	6	12	4	0	8	11	8	7	16	110
1977	19	13	14	9	5	4	9	10	6	6	18	9	122
1978	6	17	10	5	15	7	4	2	6	8	10	15	105
1979	19	16	7	8	6	0	8	7	10	6	9	8	104
1980	21	14	17	18	10	5	4	7	6	7	9	9	127
1981	24	21	12	11	16	12	1	5	6	15	16	15	154
1982	11	17	16	9	9	16	5	5	8	13	14	19	142
1983	20	12	16	14	19	10	13	3	7	10	12	13	149
1984	23	16	15	6	5	12	8	4	6	8	21	18	142
1985	11	10	11	13	3	3	10	1	6	7	8	7	90
1986	14	17	17	10	15	2	7	7	9	7	10	11	126
1987	13	6	12	5	10	5	5	2	4	10	12	17	101
1988	17	6	21	12	5	4	2	1	9	7	6	12	102
1989	20	9	12	13	4	8	8	6	5	4	6	16	111
1990	17	15	7	9	17	6	8	5	6	10	14	14	128
1991	17	13	18	10	13	10	3	2	7	8	13	23	137
1992	13	20	12	15	19	10	5	7	14	7	9	14	145
1993	16	9	10	5	10	4	8	4	6	6	14	16	108
1994	12	23	11	7	9	6	3	1	4	13	5	18	112
AVER.	13	11	10	7	8	5	4	4	5	7	9	12	94

DIA DE LLUVIA MENSUAL

NUMBER OF RAINY DAYS													
STATION: 5806 SC-TROMPILLO													
													(Unit : day)
YEAR	MONTH												ANNUAL TOTAL
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1943	10	10	10	8	13	15	8	3	5	10	14	10	116
1944	12	9	5	6	5	8	1	2	1	9	4	5	67
1945	3	0	13	8	3	4	8	1	5	3	8	8	64
1946	11	12	15	8	10	7	8	5	7	8	9	18	118
1947	13	14	9	12	15	9	8	7	10	6	8	11	122
1948	20	17	11	6	3	3	11	3	4	11	7	14	110
1949	13	7	10	7	3	11	5	2	0	4	10	14	86
1950	11	13	8	10	9	11	3	1	4	12	7	15	104
1951	15	15	11	7	8	8	2	2	6	10	10	17	111
1952	19	17	15	5	6	18	1	5	3	11	10	10	120
1953	19	10	12	10	19	6	4	0	6	11	11	9	117
1954	15	9	9	11	13	9	6	4	7	3	4	9	99
1955	10	14	17	8	11	11	11	1	0	8	6	13	110
1956	24	12	9	18	5	9	6	1	6	5	11	7	113
1957	10	18	3	9	14	7	10	6	6	10	10	16	119
1958	12	5	13	10	12	7	9	7	6	8	6	19	114
1959	12	11	9	11	5	6	4	10	5	6	7	9	95
1960	12	6	13	8	8	7	4	9	3	6	6	6	88
1961	16	15	12	13	9	7	5	1	2	7	10	12	109
1962	11	4	9	5	10	2	2	4	4	6	2	15	74
1963	11	7	10	8	9	4	4	1	4	5	8	3	74
1964	11	8	12	7	10	6	2	6	11	7	8	11	99
1965	15	10	8	9	10	5	7	5	5	10	6	16	106
1966	10	17	15	5	13	10	3	1	2	7	6	10	99
1967	10	8	10	3	10	9	6	4	4	2	3	11	80
1968	12	10	4	5	3	3	4	7	1	6	5	11	71
1969	11	8	7	9	10	7	2	1	5	4	12	8	84
1970	8	7	13	6	12	9	4	3	2	4	6	10	84
1971	16	12	12	8	6	13	4	3	3	9	7	8	101
1972	9	9	8	9	9	4	5	10	4	7	10	12	96
1973	7	9	5	2	6	6	9	6	1	9	11	17	88
1974	15	12	10	8	2	10	8	3	1	13	5	11	98
1975	10	9	7	9	3	10	5	4	6	3	8	18	92
1976	15	14	13	4	12	5	2	4	12	10	6	15	112
1977	19	16	7	7	10	3	9	11	7	4	15	11	119
1978	10	12	10	2	8	8	3	4	5	6	11	12	91
1979	16	12	11	7	15	0	8	2	8	5	7	8	99
1980	11	13	14	14	11	5	5	8	4	10	7	6	108
1981	19	18	15	9	18	9	1	4	3	11	14	14	135
1982	11	15	12	7	10	22	9	7	8	9	15	18	143
1983	17	9	15	17	21	18	15	3	5	4	14	13	151
1984	19	16	11	9	8	15	8	5	7	8	20	18	144
1985	6	12	17	16	9	3	7	3	9	6	8	9	105
1986	10	12	17	12	14	10	5	12	13	4	11	11	131
1987	21	15	16	11	13	6	6	4	4	7	9	20	132
1988	19	8	15	13	10	5	5	1	8	10	4	10	108
1989	16	8	10	14	9	11	6	6	8	3	5	13	109
1990	15	17	9	11	19	10	8	6	5	9	13	16	138
1991	19	13	19	13	14	9	5	3	12	10	15	24	156
1992	10	21	19	19	16	17	6	8	10	6	10	13	155
1993	22	7	7	11	9	3	12	6	10	8	13	16	124
1994	9	16	9	10	5	5	7	2	3	12	7	18	108
AVER.	13	12	11	9	10	8	6	4	5	7	9	12	108

DIA DE LLUVIA MENSUAL

NUMBER OF RAINY DAYS													
STATION: OKINAWA 2 (CETABOL-JICA)													
YEAR	MONTH												ANNUAL TOTAL
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1943													
1944													
1945													
1946													
1947													
1948													
1949													
1950													
1951													
1952													
1953													
1954													
1955													
1956													
1957													
1958													
1959													
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969	8	7	3	3	3	4	1	0	3	3	8	5	48
1970	5	3	6	1	0	0	0	2	2	3	5	7	34
1971	17	11	10	7	6	9	3	8	5	4	7	6	93
1972		13	8	6	11	5	5	10	4	10	9	17	
1973	11	16	9	4	6	3	5	5	2	7	9	17	94
1974	16	14	8	7	6	8	3	3	3	12	6	11	97
1975	12	10	7	8	0	5	4	5	8	6	10	8	83
1976	12	8	4	1	9	3	0	5	8	7	5	15	77
1977	14	10	10	7	6	3	1	10	3	7	13	6	90
1978	5	12	7	1	8	5	1	2	3	5	5	10	64
1979	15	12	6	6	3	0	5	1	5	2	7	5	67
1980	12	9	8	13	7	3	2	4	4	4	5	5	76
1981	14	13	9	5	7	4	1	3	3	8	9	15	91
1982	7	10	10	6	7	11	4	2	6	5	8	12	88
1983	13	8	8	8	15	11	7	0	3	4	9	9	95
1984	16	12	7	5	5	7	1	2	3	6	13	14	91
1985	8	5	5	14	4	2	7	1	7	6	7	9	75
1986	8	14	11	6	10	1	3	5	5	4	6	8	81
1987	14	6	5	3	2	3	5	1	1	6	4	21	71
1988	13	7	19	13	4	2	0	1	4	3	3	7	76
1989	8	7	8	7	1	7	2	4	3	1	3	8	59
1990	12	4	7	5	12	7	6	4	3	5	6	7	78
1991	6	11	9	5	4	4	1	0	4	6	6	2	58
1992	7	16	3	11	13	6	1	7	10	3	7	9	93
1993	14	6	7	0	5	1	6	4	2	6	7	8	66
1994	10	16	5	6	6	4	3	0	2	10	3	9	74
AVER.	11	10	8	6	6	5	3	3	4	6	7	10	77

DIA DE LLUVIA MENSUAL

NUMBER OF RAINY DAYS													
STATION : COLONIA SAN JUAN DE YAPACANI (JICA/CAISY)													
YEAR	MONTH												(Unit : day)
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL TOTAL
1943													
1944													
1945													
1946													
1947													
1948													
1949													
1950													
1951													
1952													
1953													
1954													
1955													
1956													
1957													
1958													
1959													
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973	16	17	11	9	9	9	10	6	3	7	10	17	124
1974	24	17	11	8	4	8	4	5	2	16	6	18	123
1975	14	17	14	6	8	12	5	5	9	10	12	14	126
1976	21	14	12	6	10	7	3	8	9	8	12	16	126
1977	21	16	14	7	9	6	8	7	9	8	20	13	138
1978	10	16	10	4	7	8	6	4	6	10	11	12	104
1979	18	17	10	9	12	2	8	3	9	10	3	7	108
1980	17	14	17	16	8	3	4	8	7	10	8	10	122
1981	22	21	12	11	14	8	3	4	5	12	15	20	147
1982	10	18	18	5	10	18	5	7	6	13	17	18	145
1983	18	12	16	15	19	14	14	2	4	8	11	13	146
1984	20	13	10	9	11	11	8	7	4	6	16	19	134
1985	12	12	14	10	7	4	4	2	6	5	12	12	100
1986	18	15	15	16	10	11	6	8	12	7	9	12	139
1987	25	12	14	11	15	4	5	1	1	11	13	20	132
1988	15	8	13	10	5	2	3	0	4	7	5	13	85
1989	20	8	12	10	5	8	4	3	4	5	6	12	97
1990	10	16	10	11	13	8	8	6	3	5	11	9	110
1991	20	11	16	12	13	12	5	6	9	12	20	26	162
1992	16	24	18	15	25	14	4	8	9	5	11	12	161
1993	17	11	14	10	8	4	9	3	4	7	8	18	113
1994	15	23	12	10	13	7	6	2	4	11	7	18	128
AVER.	17	15	13	10	11	8	6	5	6	9	11	15	126

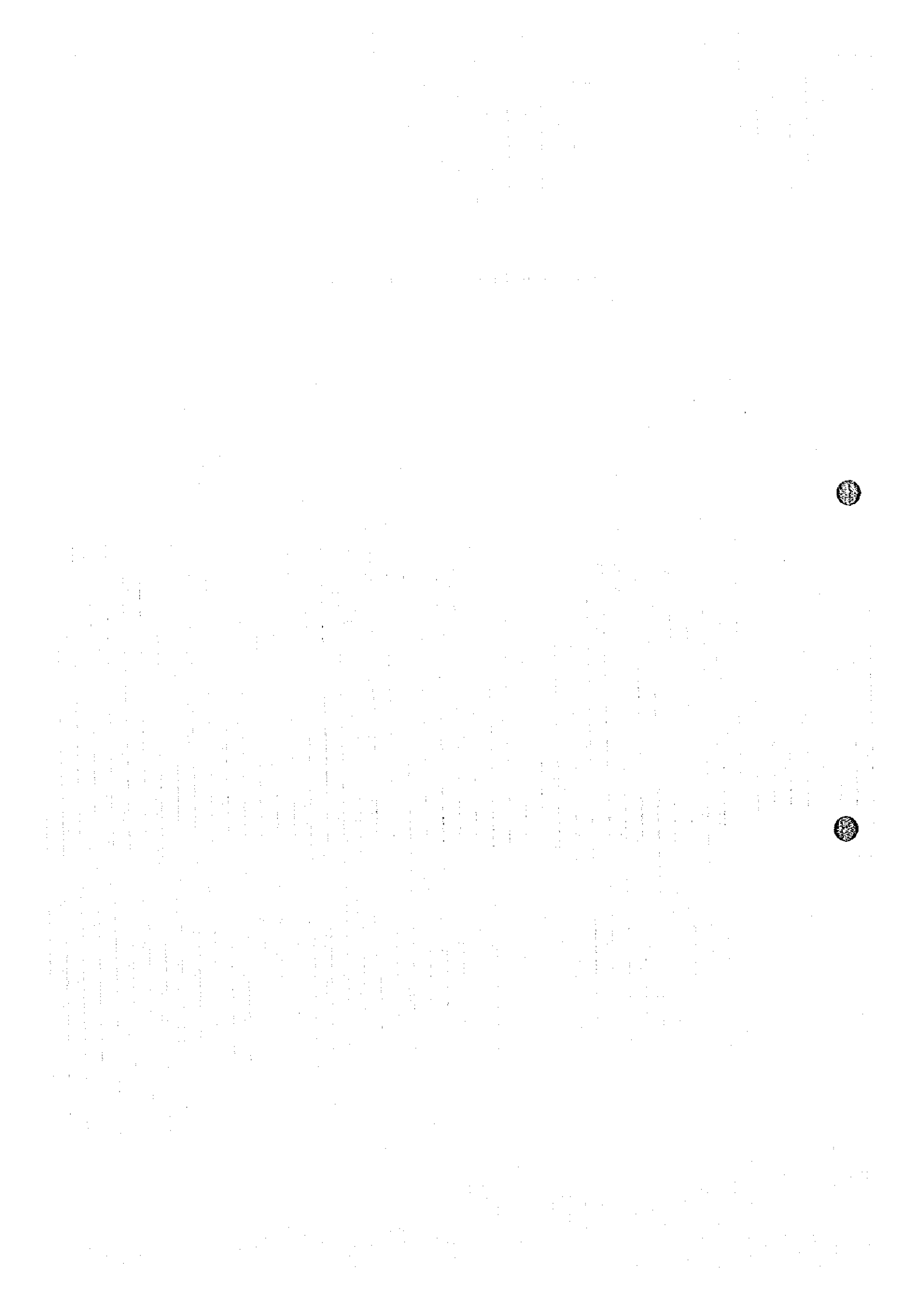
DIA DE LLUVIA MENSUAL

NUMBER OF RAINY DAYS																									
STATION: MIH PUERTO PAJAS																									
YEAR	MONTH												(Unit : day)												
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	TOTAL											
1933																									
1944																									
1945																									
1946																									
1947																									
1948																									
1949																									
1950																									
1951																									
1952																									
1953																									
1954																									
1955																									
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1959																									
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1963																									
1964																									
1965																									
1966																									
1967																									
1968																									
1969																									
1970																									
1971																									
1972																									
1973																									
1974																									
1975																									
1976																									
1977	5	3	3	3	2	1	1	2	3	3	6	4	36												
1978	8	11	9	2	5	4	2	3	4	5	9	12	74												
1979	15	12	10	7	15	0	8	2	8	5	7	7	96												
1980	9	12	14	13	10	4	3	6	4	8	5	5	93												
1981	18	16	15	9	11	6	1	2	3	9	13	12	115												
1982	9	14	11	7	8	14	4	7	7	8	15	17	121												
1983	17	9	15	17	16	15	13	2	5	3	13	11	136												
1984	19	14	10	9	8	10	6	4	4	7	20	15	126												
1985	6	12	17	14	9	1	6	2	9	6	8	8	98												
1986	10	12	17	12	14	5	3	10	7	4	10	10	114												
1987	20	13	16	11	13	4	5	4	3	7	9	19	124												
1988	18	8	15	13	10	4	4	1	8	9	4	9	103												
1989	15	8	10	14	9	10	3	4	7	3	5	11	99												
1990	15	17	9	11	15	7	8	6	2	9	13	15	127												
1991	17	12	19	12	13	8	4	3	11	10	15	23	147												
1992	12	14	7	14	15	7	5	10	12	4	5	7	112												
1993	8	3																							
1994	10	16	5	6	6	4	3	0	2	10	3	9	74												
AVER.	13	11	12	10	11	6	5	4	6	6	9	11	106												

DIAS DE LLUVIA MENSUAL

NUMBER OF RAINY DAYS																														
STATION: OKINAWA I (CAICO)																														
YEAR													(Unit: day)																	
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	MONTH												ANNUAL											
							JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	TOTAL																	
1943																														
1944																														
1945																														
1946																														
1947																														
1948																														
1949																														
1950																														
1951																														
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1968																														
1969																														
1970																														
1971																														
1972																														
1973																														
1974																														
1975																														
1976																														
1977	11	7	14	6	3	3	3	10	5	5	13	9	89																	
1978	9	12	7	4	9	6	7	3	7	7	10	10	91																	
1979	9	5	6	7	4	1	5	2	6	6	7	10	68																	
1980	12	8	13	8	11	2	1	6	5	3	10	8	87																	
1981	13	11	12	7	12	8	2	4	5	11	13	15	113																	
1982	11	11	11	5	10	8	6	5	7	14	12	17	117																	
1983	12	9	9	14	18	10	11	3	3	6	14	13	122																	
1984	19	12	10	7	7	9	6	4	3	6	19	22	124																	
1985	10	7	7	8	5	2	10	1	7	7	9	8	81																	
1986	10	11	13	10	9	5	7	5	4	4	11	10	99																	
1987	17	10	8	5	11	6	3	2	5	8	11	20	106																	
1988	19	7	12	9	3	2	3	1	7	9	9	12	93																	
1989	16	9	12	10	5	6	4	0	4	3	5	13	87																	
1990	16	16	9	6	4	1	1	1	3	7	14	13	91																	
1991	17	13	18	10	2	0	1	0	6	9	15	2	93																	
1992	9	11	9	13	13	6	2	7	8	4	5	5	92																	
1993	6	4	6	2	7	0	5	4	4	2	8	5	53																	
1994	9	10	5	3	2	3	1	0	1	5	3	8	50																	
AVER.	13	10	10	7	8	4	4	3	5	6	10	11	92																	

5. Temperatura Promedio Mensual



TEMPERATURA PROMEDIO MENSUAL

MONTHLY AVERAGE TEMPERATURE													(Unit: °C)
STATION: OKINAWA 2 (CHTABOL-JICA)													
YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL AVER.
1943													
1944													
1945													
1946													
1947													
1948													
1949													
1950													
1951													
1952													
1953													
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1963													
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1965													
1966													
1967													
1968													
1969													
1970													
1971													23.7
1972													23.9
1973													24.2
1974													23.2
1975													23.8
1976													23.7
1977													24.3
1978													24.7
1979													23.7
1980													23.2
1981				25.4	22.8	18.1	20.1	23.0	22.1	24.6	24.5	25.4	22.9
1982	25.9	25.0	25.0	24.4	21.7	19.9	20.7	21.9	23.0	24.1	24.0	25.5	23.4
1983	26.0	26.1	24.9	23.7	22.1	15.9	18.6	21.2	25.5	25.6	25.1	26.8	23.5
1984	25.6	25.0	25.7	22.9	22.3	17.4	22.0	20.5	23.2	27.0	25.4	25.5	23.5
1985	26.0	25.8	26.0	23.5	22.9	20.4	18.8	19.9	22.4	25.9	27.1	27.4	23.8
1986	26.7	24.8	24.9	24.9	21.6	20.7	19.7	21.7	22.3	24.6	27.2	27.1	23.8
1987	26.4	25.6	25.8	25.1	19.4	20.8	23.3	21.4	24.7	26.1	27.0	25.3	24.2
1988	26.3	27.1	26.3	23.8	19.8	21.2	17.9	24.3	24.8	26.0	27.5	26.3	24.3
1989	26.5	27.0	25.6	25.4	21.7	23.2	20.6	23.8	23.1	27.2	27.7	26.3	24.8
1990	25.4	26.0	25.8	25.7	21.5	19.0	18.1	22.1	23.1	27.2	27.2	26.5	24.0
1991	25.7	26.7	26.7	24.7	24.8	21.2	19.8	21.6	23.6	25.6	25.4	26.3	24.3
1992	27.0	25.8	23.6	22.5	20.9	20.7	16.1	19.1	20.5	23.5	23.9	24.8	22.4
1993	24.6	24.1	25.7	24.4	21.3	22.0	19.2	21.2	23.2	26.0	24.8	25.6	23.5
1994	26.0	24.8	24.5	22.7	19.5	18.1	19.9	23.7	25.5	25.4	28.8	26.6	23.8
AVER.	26.0	25.7	25.4	24.2	21.6	19.9	19.6	21.8	23.3	25.6	26.1	26.1	23.8

TEMPERATURA MAXIMA PROMEDIO MENSUAL

MONTHLY AVERAGE HIGHEST TEMPERATURE													(Unit: °C)
STATION: OKINAWA 2 (CETABOL-JCA)													
YEAR	MONTH												ANNUAL AVER
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1943													
1944													
1945													
1946													
1947													
1948													
1949													
1950													
1951													
1952													
1953													
1954													
1955													
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1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													30.6
1972													30.4
1973													30.7
1974													29.8
1975													30.4
1976													30.0
1977													30.0
1978													31.1
1979													29.9
1980													29.2
1981				33.1	30.4	27.8	26.3	30.0	29.4	29.2	31.7	30.5	30.3
1982	31.8	30.5	30.4	30.1	27.4	24.8	28.2	28.9	30.0	30.2	29.0	31.1	29.4
1983	31.5	31.8	31.0	29.1	26.3	20.7	23.4	29.4	30.0	31.3	29.6	32.7	28.9
1984	30.9	31.0	33.1	29.4	29.4	21.9	27.9	28.0	31.6	33.2	30.3	30.6	29.8
1985	30.4	32.0	31.2	27.9	29.3	27.2	25.5	27.0	29.2	32.3	32.4	33.9	29.8
1986	31.2	30.4	30.9	30.9	27.4	27.7	27.9	27.8	28.7	31.3	33.1	32.4	30.0
1987	30.3	30.9	31.6	31.0	24.0	26.1	28.2	27.3	31.2	31.8	32.2	29.4	29.5
1988	30.1	32.1	30.9	28.5	23.8	27.1	25.2	31.5	30.9	32.2	34.2	30.6	29.8
1989	30.8	32.0	30.9	31.3	27.6	28.1	27.8	30.0	29.1	34.3	34.1	31.5	30.6
1990	30.1	30.9	31.6	30.5	25.9	23.6	23.6	28.9	29.3	33.0	32.2	31.5	29.3
1991	31.3	31.2	31.2	29.7	29.7	25.7	26.0	27.8	29.5	31.2	30.0	29.8	29.4
1992	31.3	29.6	27.6	26.7	24.2	24.2	20.5	24.6	24.7	28.3	28.4	28.7	26.6
1993	28.3	28.8	30.2	27.1	26.0	27.3	24.4	27.5	28.4	31.0	29.2	29.5	28.1
1994	30.5	28.7	29.5	27.2	23.5	22.5	24.0	30.1	31.3	30.3	32.2	31.2	28.4
AVER	30.6	30.8	30.8	29.5	26.8	25.3	25.6	28.5	29.5	31.4	31.3	30.9	29.7

TEMPERATURA MINIMA PROMEDIO MENSUAL

MONTHLY AVERAGE LOWEST TEMPERATURE													(Unit: °C)
STATION: OKINAWA 2 (CETABOL-JICA)													
YEAR	MONTH												ANNUAL AVER.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1943													
1944													
1945													
1946													
1947													
1948													
1949													
1950													
1951													
1952													
1953													
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1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													18.6
1972													19.3
1973													19.4
1974													18.4
1975													18.4
1976													17.7
1977													18.6
1978													18.7
1979													18.1
1980													18.5
1981				20.3	18.1	14.3	12.7	15.8	14.1	14.6	18.1	20.5	17.6
1982	21.3	20.6	21.2	19.3	16.3	16.8	16.9	16.7	18.7	19.5	22.1	22.1	19.3
1983	22.8	21.5	20.7	20.1	18.8	13.2	15.3	14.9	16.0	18.5	19.7	21.1	18.6
1984	21.4	20.3	21.4	17.2	19.0	13.3	16.1	15.5	18.2	21.5	20.6	21.1	18.8
1985	21.7	21.5	21.4	19.1	18.3	15.3	14.1	14.9	17.3	20.8	20.3	21.8	18.9
1986	22.1	22.1	21.3	20.3	18.0	16.5	13.0	17.4	16.7	17.9	21.3	21.7	19.0
1987	22.5	20.3	20.1	19.9	14.8	15.5	18.4	15.7	18.2	20.5	21.9	21.2	19.1
1988	22.5	22.0	21.8	19.0	15.8	15.2	10.7	17.0	18.7	19.9	20.8	22.1	18.8
1989	22.2	22.0	20.5	19.6	15.8	18.3	13.4	17.5	17.0	20.0	21.3	21.1	19.0
1990	20.7	21.2	20.1	20.9	17.1	14.3	12.5	15.3	17.0	21.5	22.2	21.5	18.7
1991	20.2	22.1	22.2	19.7	19.9	16.7	13.6	15.3	17.7	20.0	20.9	22.7	19.2
1992	22.6	21.9	19.6	18.3	17.5	17.2	11.6	14.3	16.3	18.2	19.4	20.9	18.1
1993	20.9	19.4	21.1	19.7	16.6	16.7	14.0	15.0	18.1	20.9	20.4	21.7	18.7
1994	21.5	21.0	19.4	18.2	15.5	13.7	15.8	17.2	19.7	20.5	21.3	22.0	18.8
AVER.	21.7	21.2	20.8	19.4	17.2	15.5	14.1	15.9	17.4	19.6	20.7	21.5	18.7

TEMPERATURA PROMEDIO MENSUAL

MONTHLY AVERAGE TEMPERATURE													
STATION:	SAN JUAN DE YAPACANI (JICA/CAISY)												
YEAR	MONTH												(Unit: °C)
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL AVER.
1943													
1944													
1945													
1946													
1947													
1948													
1949													
1950													
1951													
1952													
1953													
1954													
1955													
1956													
1957													
1958													
1959													
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973	26.6	26.5	26.1	26.0	22.0	21.8	19.6	19.6	24.2	26.0	25.5	25.7	24.1
1974	26.3	26.2	26.2	24.4	23.8	22.0	21.4	23.0	24.7	25.1	26.5	26.5	24.7
1975	27.0	27.4	26.8	25.9	22.6	21.3	19.9	21.7	23.7	24.8	25.9	26.6	24.5
1976	26.0	26.4	25.0	23.7	21.6	20.1	21.0	22.1	22.0	25.7	25.3	25.7	23.7
1977	25.8	26.6	26.4	25.0	21.9	21.5	23.3	21.6	24.7	25.1	25.8	26.5	24.5
1978	26.5	26.9	27.1	25.0	22.2	20.9	23.9	20.4	24.0	26.5	25.4	26.8	24.6
1979	26.7	26.1	26.5	24.2	22.8	19.7	21.4	24.8	22.2	25.9	26.4	28.0	24.6
1980	27.0	26.9	26.9	24.2	24.3	21.7	20.9	22.0	22.9	26.0	25.0	27.4	24.6
1981	26.5	26.9	27.5	25.9	24.7	21.6	20.3	23.7	22.7	24.6	27.1	27.1	24.9
1982	28.3	27.2	27.1	24.7	21.4	19.6	20.5	20.9	22.8	24.7	23.8	24.7	23.8
1983	27.0	27.5	25.8	24.3	21.4	16.0	18.2	20.7	22.0	23.7	24.5	25.9	23.1
1984	24.6	24.7	25.9	21.7	21.5	16.4	19.3	18.5	21.8	24.9	24.0	23.9	22.3
1985	25.2	25.0	25.4	23.4	24.3	20.7	19.2	20.2	23.7	27.4	27.7	30.1	24.4
1986	26.7	25.2	23.7	24.7	23.3	22.3	21.8	23.9	20.5	23.9	24.2	25.4	23.8
1987	25.0	24.5	24.6	23.1	17.5	18.6	21.8	19.8	22.9	23.9	25.9	25.0	22.7
1988	27.2	28.5	29.4	26.6	23.7	24.7	21.8	27.4	25.4	27.2	27.7	28.1	26.5
1989	27.5	28.7	26.1	25.7	21.0	22.8	20.5	22.6	22.5	25.1	24.8	24.9	24.4
1990	25.6	25.2	25.7	25.2	21.8	19.5	18.5	21.3	22.3	24.3	26.2	25.9	23.5
1991	24.7	26.6	25.9	26.1	23.8	20.7	19.9	21.2	23.7	24.7	25.1	25.2	24.0
1992	26.6	25.2	25.2	23.8	21.8	21.5	17.5	21.1	21.1	24.2	24.6	25.8	23.2
1993	25.0	26.9	26.6	24.8	22.0	21.9	20.6	20.7	22.3	25.6	25.8	26.3	24.0
1994	27.1	25.8	26.0	24.9	24.6	22.3	21.1	23.1	25.2	25.8	26.7	26.5	24.9
AVER.	26.3	26.4	26.2	24.7	22.5	20.8	20.6	21.8	23.1	25.2	25.6	26.3	24.1

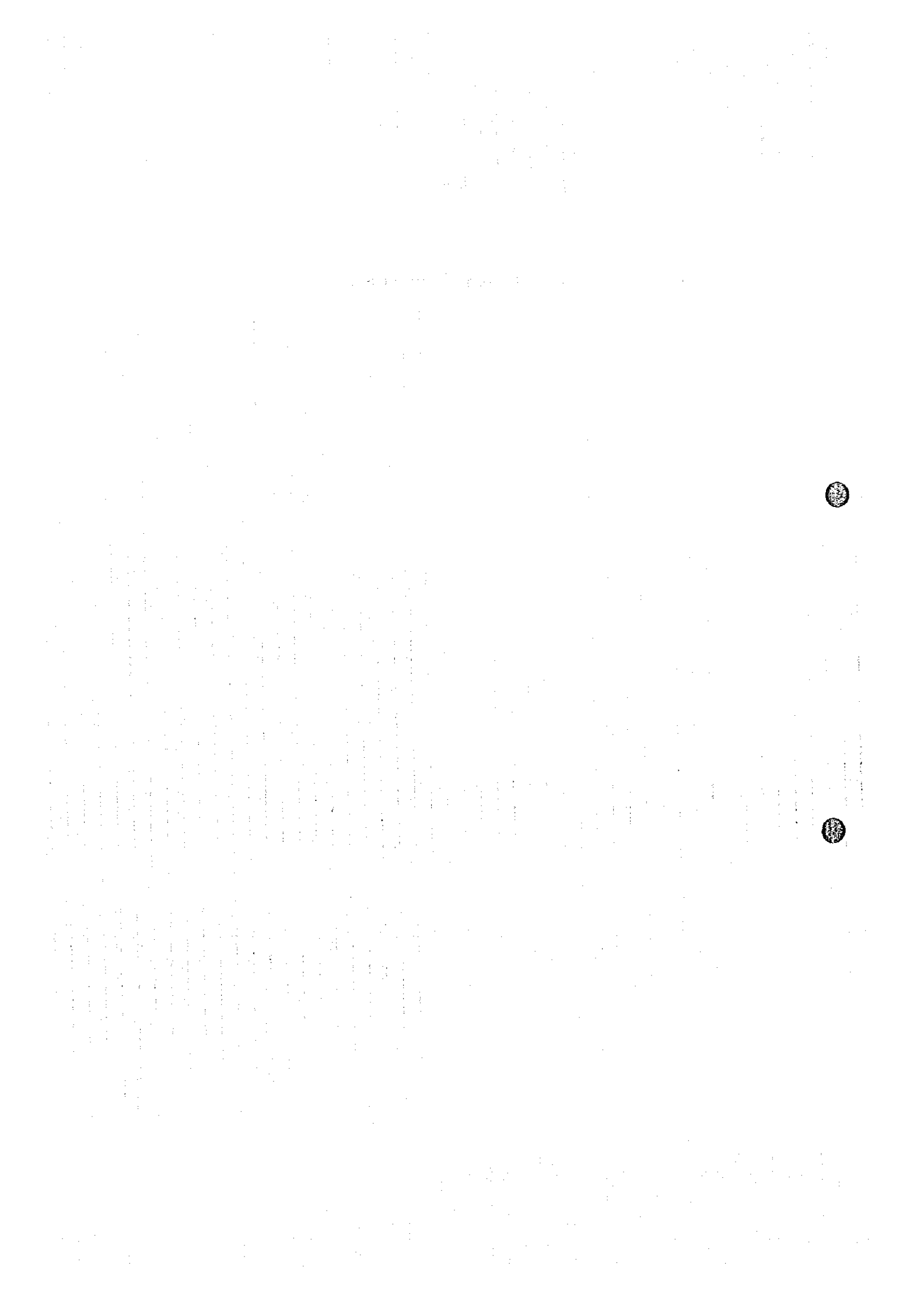
TEMPERATURA MAXIMA PROMEDIO MENSUAL

MONTHLY AVERAGE HIGHEST TEMPERATURE													
STATION :	SAN JUAN DE YAPACANI (JICACAISY)												
YEAR	MONIII												(Unit : °C)
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL AVER
1943													
1944													
1945													
1946													
1947													
1948													
1949													
1950													
1951													
1952													
1953													
1954													
1955													
1956													
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1959													
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973	30.5	29.7	30.5	32.0	27.3	26.9	24.5	25.4	31.1	32.2	30.8	30.0	29.2
1974	30.5	30.5	31.6	29.8	30.2	26.2	27.2	29.2	31.9	30.4	32.7	30.9	30.1
1975	32.2	31.4	31.9	31.0	27.9	25.8	26.4	27.9	29.8	30.4	30.6	31.9	29.8
1976	31.5	32.0	30.7	30.3	25.8	24.4	27.6	29.6	27.1	31.8	30.8	30.0	29.4
1977	29.7	31.5	31.2	30.6	29.0	28.4	27.8	27.7	30.8	31.8	30.0	31.4	30.0
1978	31.6	31.5	32.7	31.9	27.5	25.7	28.7	28.0	30.7	32.5	31.6	31.6	30.3
1979	31.1	31.0	31.8	29.7	27.7	26.3	27.6	27.8	27.9	32.7	32.4	33.1	29.9
1980	32.2	32.1	32.0	28.4	29.5	25.9	26.6	28.0	29.0	32.6	31.4	32.2	30.0
1981	30.4	31.1	32.4	31.3	29.2	25.8	27.0	30.1	27.9	28.9	30.9	30.7	29.6
1982	32.9	31.0	31.3	30.3	26.8	23.4	25.0	27.1	28.1	29.9	27.9	29.3	28.6
1983	31.0	32.4	30.6	28.1	23.3	18.7	21.5	26.6	27.2	29.3	29.3	31.4	27.5
1984	28.5	29.0	30.6	26.6	26.2	20.1	25.0	23.9	28.7	30.5	28.3	27.6	27.1
1985	30.3	29.4	29.1	27.2	27.6	26.7	24.5	26.6	30.1	33.1	33.8	35.4	29.5
1986	31.0	29.5	27.9	29.9	27.4	26.5	28.3	29.2	25.6	29.3	29.1	30.1	28.7
1987	28.5	29.7	30.6	28.4	21.1	24.2	26.1	25.1	29.4	29.8	31.2	28.4	27.7
1988	29.9	33.6	33.6	31.1	27.9	30.5	28.8	34.9	32.0	33.8	34.6	32.9	32.0
1989	31.6	34.1	32.2	30.5	27.0	27.6	27.3	27.7	29.1	32.1	31.1	30.1	30.0
1990	31.1	29.8	31.0	29.9	24.8	21.2	22.1	26.7	25.8	27.8	29.3	28.7	27.4
1991	27.1	28.9	29.1	30.8	27.5	23.6	24.3	25.5	27.5	28.3	28.3	27.8	27.4
1992	30.2	28.0	28.1	26.4	23.9	24.6	22.8	25.9	25.7	28.6	29.3	29.7	26.9
1993	29.0	31.9	31.5	29.4	27.0	27.8	25.4	26.9	28.0	30.8	30.7	30.4	29.1
1994	31.6	29.3	30.1	29.5	28.8	27.6	25.8	29.7	30.7	29.8	31.6	30.4	29.6
AVER.	30.6	30.8	30.9	29.7	27.0	25.4	25.9	27.7	28.8	30.7	30.7	30.6	29.1

TEMPERATURA MINIMA PROMEDIO MENSUAL

MONTHLY AVERAGE LOWEST TEMPERATURE													
STATION :	SAN JUAN DE YAPACANI (JICA/CAISY)												
YEAR	MONTH												(Unit : °C)
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL AVER.
1943													
1944													
1945													
1946													
1947													
1948													
1949													
1950													
1951													
1952													
1953													
1954													
1955													
1956													
1957													
1958													
1959													
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973	22.7	22.5	22.4	20.0	16.8	16.6	14.0	13.8	17.0	19.7	20.2	20.9	18.9
1974	22.1	21.9	20.9	18.9	17.3	17.8	15.7	16.8	17.4	19.7	20.7	22.1	19.3
1975	22.4	23.0	21.8	20.4	18.9	16.8	13.5	15.4	17.6	19.3	21.2	21.4	19.3
1976	21.6	20.9	19.4	16.8	16.5	15.8	14.3	14.6	16.9	19.7	19.8	21.4	18.1
1977	21.9	21.7	21.6	19.3	15.8	15.7	18.9	15.4	18.6	17.9	21.3	21.6	19.1
1978	21.3	22.3	21.3	18.2	16.9	16.1	19.1	12.9	17.5	20.5	20.8	21.9	19.1
1979	22.2	21.2	21.3	18.8	17.8	13.2	15.1	18.4	16.7	19.0	20.4	22.9	18.9
1980	21.8	21.6	21.8	20.1	19.7	17.5	15.1	16.1	16.8	19.2	20.5	22.6	19.4
1981	22.6	22.6	22.6	20.6	20.3	17.3	13.7	17.3	17.4	20.2	23.3	23.5	20.1
1982	23.8	23.5	22.9	19.1	16.1	15.8	16.0	14.6	17.6	19.5	19.7	20.1	19.1
1983	23.0	22.6	20.9	20.0	18.5	12.8	14.9	15.1	16.4	18.1	19.7	20.6	18.6
1984	20.6	20.4	21.0	16.9	17.7	12.8	14.2	13.0	16.6	19.3	19.7	20.1	17.7
1985	19.9	20.7	21.8	19.7	18.1	14.6	13.2	13.7	17.5	21.6	21.9	23.8	18.9
1986	22.0	21.1	19.4	19.8	19.0	18.0	15.7	19.2	15.6	18.5	19.5	20.8	19.1
1987	21.4	19.3	19.2	18.5	14.0	13.3	17.5	14.9	16.4	19.0	21.4	21.5	18.0
1988	22.5	24.1	25.1	22.2	20.8	19.0	16.2	20.2	19.9	21.5	21.8	23.4	21.4
1989	23.5	23.3	21.9	21.0	15.7	18.6	13.8	17.6	17.0	17.8	18.1	19.8	19.0
1990	20.3	20.4	20.6	20.5	18.9	17.9	14.9	17.8	18.6	20.7	23.0	23.1	19.7
1991	22.3	23.1	22.7	21.4	20.1	17.9	15.6	16.9	19.9	21.2	21.9	22.6	20.5
1992	23.1	22.4	22.4	21.3	19.8	18.4	12.2	16.3	16.7	19.9	19.9	21.9	19.5
1993	21.1	21.9	21.6	20.2	17.0	15.9	15.7	14.5	16.5	20.3	20.9	22.2	19.0
1994	22.5	22.2	21.8	20.3	20.3	17.0	16.3	16.4	19.6	21.7	21.8	22.5	20.2
AVER.	22.0	21.9	21.6	19.7	18.0	16.3	15.3	16.0	17.5	19.7	20.8	21.9	19.2

6. Humidad Relativa Promedio Mensual



HUMEDAD RELATIVA PROMEDIO MENSUAL

MONTHLY AVERAGE RELATIVE HUMIDITY													(Unit : %)
STATION : OKINAWA 2 (CETABOL-JICA)													
YEAR	MONTH												ANNUAL AVER.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1943													
1944													
1945													
1946													
1947													
1948													
1949													
1950													
1951													
1952													
1953													
1954													
1955													
1956													
1957													
1958													
1959													
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													72.4
1972													69.9
1973													57.7
1974													70.8
1975													73.0
1976													70.0
1977													75.2
1978													72.6
1979													73.7
1980													77.8
1981				84.5	93.2	81.5	66.4	71.0	63.9	76.4	82.1	82.0	81.0
1982	83.2	87.0	86.8	92.9	85.6	93.3	88.1	79.9	81.1	78.4	82.7	85.0	85.3
1983	91.1	82.1	86.3	89.6	92.8	94.6	90.8	71.0	65.3	70.4	82.0	81.0	83.1
1984	89.6	90.1	90.1	77.6	80.9	83.0	74.7	60.6	68.9	76.7	88.1	90.5	80.9
1985	85.0	89.2	90.5	91.0	86.0	80.0	75.1	71.0	74.4	74.0	71.0	73.0	80.0
1986	85.1	87.0	84.0	77.5	86.6	80.3	76.5	81.8	78.3	61.0	72.7	80.2	79.2
1987	87.4	77.6	78.8	81.3	80.2	74.4	74.2	62.4	54.7	67.9	77.7	82.7	74.9
1988	87.0	75.9	84.3	76.6	73.5	60.5	60.1	61.4	64.3	66.9	68.5	77.4	71.4
1989	80.9	79.1	79.3	77.1	72.3	76.1	66.9	68.7	67.4	64.7	68.3	76.7	73.1
1990	80.2	77.4	75.5	78.1	81.3	81.3	72.7	71.3	65.3	70.4	73.7	69.4	74.7
1991	71.7	72.6	73.7	70.2	69.9	67.8	63.8	57.9	64.0	60.9	69.3	70.0	67.6
1992	74.4	79.0	78.6	82.4	84.8	83.0	75.0	73.0	79.6	78.4	76.4	81.9	78.9
1993	81.6	81.7	83.7	84.0	83.0	78.3	78.4	72.6	71.3	77.4	81.9	85.3	79.9
1994	84.6	87.9	81.9	81.4	67.4	72.5	65.0	62.8	60.0	68.5	66.1	77.7	73.0
AVER.	83.2	82.0	82.6	81.7	81.2	79.0	73.4	69.0	68.5	70.9	75.7	79.5	74.8

HUMEDAD RELATIVA PROMEDIO MENSUAL

MONTHLY AVERAGE RELATIVE HUMIDITY													
STATION :	COLONIA SAN JUAN DE YAPACANI (JICA/CAISY)												
YEAR	MONTH												(Unit : %)
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL AVER.
1943													
1944													
1945													
1946													
1947													
1948													
1949													
1950													
1951													
1952													
1953													
1954													
1955													
1956													
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1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973	82.1	83.3	82.5	76.9	76.8	78.1	74.1	74.1	68.2	71.9	75.9	79.9	77.0
1974	80.7	77.3	75.8	74.2	73.2	76.8	73.2	69.7	61.3	71.8	69.4	74.8	73.2
1975	78.2	75.8	77.1	77.5	77.7	82.5	68.2	66.3	69.7	67.7	74.4	75.6	74.2
1976	78.6	76.6	73.0	69.9	77.7	76.8	67.6	61.8	68.6	63.6	73.8	80.9	72.4
1977	82.9	76.7	77.6	73.4	76.0	82.5	84.7	77.1	72.9	68.9	80.9	79.7	77.8
1978	74.1	82.3	73.7	70.7	80.5	83.3	79.8	63.8	64.3	70.1	75.2	78.6	74.7
1979	81.8	79.6	77.6	76.7	78.7	72.1	74.4	71.5	58.7	58.2	57.5	66.5	71.1
1980	73.4	76.3	76.1	81.6	77.7	76.1	65.7	64.9	66.0	73.2	69.0	74.3	73.0
1981	84.0	80.2	77.6	74.2	80.8	73.8	63.2	64.5	56.0	66.1	73.1	76.6	72.5
1982	68.6	76.0	75.1	75.5	76.0	83.7	86.0	79.1	71.5	73.0	83.4	83.3	77.6
1983	86.7	82.8	86.3	82.8	81.2	82.7	80.1	68.0	64.6	64.9	67.0	70.7	76.5
1984	82.6	86.0	79.3	74.3	79.5	80.7	74.8	62.7	69.0	71.5	81.5	82.9	77.1
1985	75.1	81.4	82.8	82.3	81.2	62.7	63.9	61.2	72.1	70.5	68.5	75.3	73.1
1986	80.2	80.1	79.2	79.6	83.4	81.3	71.4	80.3	80.6	82.0	87.9	89.2	81.3
1987	90.9	80.2	73.1	77.6	79.1	75.6	73.5	65.2	69.9	72.9	76.0	84.0	76.5
1988	85.7	75.6	80.0	78.7	74.7	71.6	61.9	54.5	64.1	64.0	69.7	78.3	71.6
1989	84.9	77.8	78.7	82.0	76.4	79.4	69.4	68.0	65.3	71.9	68.0	66.8	74.1
1990	62.8	62.7	58.9	56.1	48.8	77.4	61.6	69.8	67.4	60.9	78.6	87.2	66.0
1991	88.3	91.1	86.4	94.2	91.1	89.5	89.4	90.2	89.9	79.6	85.9	90.8	88.9
1992	88.3	89.6	79.4	81.3	85.2	76.3	74.7	74.5	76.5	73.0	69.5	78.7	78.9
1993	82.2	78.6	82.0	81.9	82.3	84.3	88.6	80.0	77.7	71.4	72.0	73.3	79.5
1994	70.5	82.6	78.4	80.0	81.6	78.1	75.8	67.9	67.0	78.4	71.3	80.0	76.0
AVÉR.	80.1	79.7	77.8	77.3	78.2	78.4	73.7	69.8	69.2	70.3	74.0	78.5	75.6

7. Evaporación Mensual



EVAPORACION MENSUAL

MONTHLY EVAPORATION																								
STATION :		COLONIA SAN JUAN DE YAPACANI (JICA/CAISY)																						
YEAR	MONTH											ANNUAL	(Unit : mm)											
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.		DEC.											
1943																								
1944																								
1945																								
1946																								
1947																								
1948																								
1949																								
1950																								
1951																								
1952																								
1953																								
1954																								
1955																								
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1962																								
1963																								
1964																								
1965																								
1966																								
1967																								
1968																								
1969																								
1970																								
1971																								
1972																								
1973																								
1974	36.4	54.1	117.4	108.2	98.8	72.7	99.4	114.7	176.1	112.4	167.2	97.7	1255											
1975	102.1	95.7	77.5	71.1	58.4	51.0	96.6	116.4	102.3	122.5	101.7	104.3	1100											
1976	115.5	101.7	119.8	126.9	91.8	73.2	103.5	135.7	108.8	160.4	118.1	91.1	1347											
1977	75.9	109.3	102.1	105.4	89.2	92.4	95.5	115.4	127.0	160.8	109.3	111.0	1293											
1978	147.1	88.9	142.0	126.4	75.8	63.8	88.1	132.0	149.4	149.7	134.9	105.7	1404											
1979	100.0	89.0	117.9	105.1	68.4	92.0	81.0	125.0	135.0	145.0	138.0	123.0	1319											
1980	85.0	70.0	68.0	60.0	52.0	69.0	117.0	86.0	128.0	140.0	115.0	107.0	1097											
1981	41.0	39.0	87.0	76.0	50.0	54.0	110.0	114.0	110.0	69.0	61.0	44.0	855											
1982	110.0	27.0	44.0	96.0	69.0	16.0	71.0	90.0	96.0	100.0	99.0	77.0	895											
1983	84.0	105.0	62.5	49.9	111.5	70.6	41.7	60.6	50.3	71.1	73.3	78.5	859											
1984	71.2	71.9	112.0	110.0	65.0			69.1	79.0															
1985																								
1986																								
1987																								
1988																								
1989																								
1990																								
1991																								
1992																								
1993																								
1994																								
AVER.	88.0	77.4	95.5	94.1	75.4	65.5	90.4	105.4	114.7	123.1	111.8	93.9	1142											

8. Nivel de Agua y Caudal en el Rio Piray

MONTHLY AVERAGE WATER LEVEL
 STATION: 0506 ANGOSTURA
 RIVER: RIO PIRAY

NIVEL DE AGUA PROMEDIO MENSUAL

(Unit : m)

YEAR	MONTH												ANNUAL AVER
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977										0.27	0.38	0.31	
1978	0.25	0.22	-0.02	0.06	0.03	0.04	0.04	0.06	0.04				
1979				0.17	0.18	0.07	0.09	0.34	0.43	-0.02	0.18	0.23	
1980	0.31	0.29	0.56	0.74	0.48	0.42	0.37	0.46	0.36	0.33	0.36	0.48	0.43
1981	0.89	0.79	0.92	0.55	0.42	0.37	0.32	0.29	0.29	0.44	0.42	0.91	0.55
1982	0.66	0.77	1.07	0.62	0.42	0.34	0.37	0.31	0.29	0.53	0.65	0.55	0.55
1983	0.81	1.15	1.52	0.93	0.64	0.52	0.53	0.42	0.35	0.36	0.42	0.38	0.67
1984	0.46	0.33	0.50	0.54	0.35	0.33	0.25	0.28	0.20	0.19	0.58	0.75	0.40
1985	0.61	0.93	0.76	0.72	0.78	0.77	0.81	0.70	0.66	0.61	0.58	0.76	0.72
1986	1.07	1.06	1.01	0.91	0.76	0.64	0.57	0.59	0.60	0.72	0.77	0.49	0.77
1987	0.58	0.63	0.46	0.48	0.40	0.35	0.29	0.23	0.21	0.25	0.24	0.35	0.37
1988	0.41	0.41	0.64	0.41	0.38	0.30	0.26	0.19	0.17	0.17	0.48	0.62	0.37
1989	0.77	0.90	0.61	0.61	0.54	0.55	0.51	0.45	0.44	0.39	0.35	0.42	0.55
1990	0.44	0.50	0.37	0.35	0.38	0.44	0.41	0.42	0.34	0.33	0.45	0.70	0.43
1991	0.80	0.99	1.00	0.86	0.57	0.50	0.42	0.36	0.33	0.35	0.49	0.43	0.59
1992	0.57	1.27	0.80	0.77	0.78	0.75	0.70	0.48	0.48	0.52	0.45	0.52	0.67
1993	0.93	0.69	0.55	0.45	0.43	0.38	0.38	0.38	0.54	0.37	0.34	0.41	0.49
1994	0.41	0.48	0.55		0.27	0.21		0.12	0.09	0.19		0.30	
AVER.	0.62	0.71	0.71	0.57	0.46	0.41	0.40	0.36	0.34	0.35	0.45	0.51	0.54

MONTHLY MAXIMUM WATER LEVEL
 STATION: 0506 ANGOSTURA
 RIVER: RIO PIRAY

NIVEL DE AGUA MAXIMO MENSUAL

(Unit : m)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977										0.34	1.06	1.04	
1978	1.58	0.88	-0.28	0.50	0.17	0.31	0.07	0.51	0.53				
1979				0.55	0.53	0.30	0.35	0.64	0.56	0.43	2.50	0.98	
1980	1.10	1.21	1.41	1.65	0.77	0.67	0.44	0.79	0.44	0.44	0.96	0.84	1.65
1981	2.10	1.93	2.20	0.88	0.66	0.47	0.46	0.52	0.56	1.16	0.69	1.46	2.20
1982	1.09	1.61	2.06	0.81	0.67	0.43	0.68	0.34	0.36	0.95	1.00	0.80	2.06
1983	2.80	1.57	5.76	1.85	1.39	0.63	0.76	0.54	0.41	0.97	1.40	0.88	5.76
1984	1.47	0.47	1.96	1.22	0.77	0.48	0.46	0.74	0.26	0.46	1.77	1.95	1.96
1985	1.99	2.62	1.92	1.85	1.17	1.98	1.75	0.91	1.07	0.84	1.13	1.78	2.62
1986	2.82	1.91	2.10	2.35	1.55	0.88	1.78	0.82	1.08	0.96	1.31	1.75	2.82
1987	2.04	2.85	1.06	1.60	0.50	0.68	0.40	0.40	0.80	1.28	1.19	1.76	2.85
1988	2.70	1.87	2.18	0.83	0.68	0.48	0.42	0.21	0.30	1.27	0.63	1.92	2.70
1989	1.93	2.36	1.76	1.69	0.74	1.30	0.96	0.68	0.69	0.66	1.29	1.08	2.36
1990	0.96	1.51	0.49	1.22	1.25	1.10	0.52	1.24	0.78	0.98	2.12	2.49	2.49
1991	3.59	2.40	2.60	2.28	0.66	1.16	0.62	0.49	0.50	1.46	1.46	0.72	3.59
1992	2.11	4.15	1.37	2.23	1.63	1.62	1.61	0.71	0.87	2.31	1.08	1.93	4.15
1993	3.68	1.50	1.93	0.66	1.30	0.60	0.80	2.43	1.34	1.09	1.97	1.42	3.68
1994	2.33	1.04	2.42	1.20	0.71	0.58	0.24	0.26	0.11	0.99	0.50	1.95	2.42
AVER	2.14	1.87	1.93	1.37	0.89	0.80	0.72	0.72	0.63	0.98	1.30	1.46	2.89

Note: Italic value shows the monthly maximum of daily average water level.

MONTHLY MINIMUM WATER LEVEL
 STATION: 0506 ANGOSTURA
 RIVER: RIO PIRAY

NIVEL DE AGUA MÍNIMO MENSUAL

(Unit: m)

YEAR	MONTH												ANNUAL MIN
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977										<i>0.23</i>	<i>0.24</i>	<i>0.20</i>	
1978	<i>0.03</i>	<i>0.02</i>	<i>-0.10</i>	<i>0.11</i>	<i>0.13</i>	<i>0.00</i>	<i>0.01</i>	<i>0.03</i>	<i>0.00</i>				
1979				<i>0.03</i>	<i>-0.01</i>	<i>-0.10</i>	<i>-0.14</i>	<i>-0.16</i>	<i>0.32</i>	<i>-0.25</i>	<i>-0.23</i>	<i>0.15</i>	
1980	<i>0.12</i>	<i>0.11</i>	<i>0.16</i>	<i>0.50</i>	<i>0.40</i>	<i>0.37</i>	<i>0.34</i>	<i>0.32</i>	<i>0.32</i>	<i>0.29</i>	<i>0.28</i>	<i>0.35</i>	<i>0.11</i>
1981	<i>0.40</i>	<i>0.63</i>	<i>0.57</i>	<i>0.41</i>	<i>0.36</i>	<i>0.33</i>	<i>0.28</i>	<i>0.24</i>	<i>0.24</i>	<i>0.25</i>	<i>0.30</i>	<i>0.68</i>	<i>0.24</i>
1982	<i>0.39</i>	<i>0.36</i>	<i>0.75</i>	<i>0.47</i>	<i>0.35</i>	<i>0.32</i>	<i>0.32</i>	<i>0.26</i>	<i>0.25</i>	<i>0.26</i>	<i>0.46</i>	<i>0.45</i>	<i>0.25</i>
1983	<i>0.47</i>	<i>1.00</i>	<i>1.07</i>	<i>0.51</i>	<i>0.50</i>	<i>0.44</i>	<i>0.42</i>	<i>0.36</i>	<i>0.31</i>	<i>0.30</i>	<i>0.31</i>	<i>0.28</i>	<i>0.28</i>
1984	<i>0.29</i>	<i>0.27</i>	<i>0.25</i>	<i>0.38</i>	<i>0.26</i>	<i>0.26</i>	<i>0.19</i>	<i>0.18</i>	<i>0.16</i>	<i>0.11</i>	<i>0.18</i>	<i>0.39</i>	<i>0.11</i>
1985	<i>0.31</i>	<i>0.46</i>	<i>0.42</i>	<i>0.42</i>	<i>0.70</i>	<i>0.62</i>	<i>0.62</i>	<i>0.61</i>	<i>0.52</i>	<i>0.52</i>	<i>0.49</i>	<i>0.52</i>	<i>0.31</i>
1986	<i>0.69</i>	<i>0.80</i>	<i>0.68</i>	<i>0.70</i>	<i>0.60</i>	<i>0.60</i>	<i>0.49</i>	<i>0.48</i>	<i>0.43</i>	<i>0.56</i>	<i>0.42</i>	<i>0.35</i>	<i>0.35</i>
1987	<i>0.44</i>	<i>0.50</i>	<i>0.30</i>	<i>0.32</i>	<i>0.34</i>	<i>0.32</i>	<i>0.26</i>	<i>0.20</i>	<i>0.16</i>	<i>0.15</i>	<i>0.12</i>	<i>0.18</i>	<i>0.12</i>
1988	<i>0.14</i>	<i>0.21</i>	<i>0.32</i>	<i>0.33</i>	<i>0.30</i>	<i>0.26</i>	<i>0.19</i>	<i>0.17</i>	<i>0.14</i>	<i>0.10</i>	<i>0.09</i>	<i>0.47</i>	<i>0.09</i>
1989	<i>0.56</i>	<i>0.68</i>	<i>0.52</i>	<i>0.51</i>	<i>0.49</i>	<i>0.50</i>	<i>0.44</i>	<i>0.40</i>	<i>0.39</i>	<i>0.34</i>	<i>0.28</i>	<i>0.31</i>	<i>0.28</i>
1990	<i>0.33</i>	<i>0.38</i>	<i>0.33</i>	<i>0.29</i>	<i>0.28</i>	<i>0.39</i>	<i>0.35</i>	<i>0.27</i>	<i>0.26</i>	<i>0.24</i>	<i>0.28</i>	<i>0.44</i>	<i>0.24</i>
1991	<i>0.53</i>	<i>0.65</i>	<i>0.63</i>	<i>0.65</i>	<i>0.50</i>	<i>0.44</i>	<i>0.37</i>	<i>0.33</i>	<i>0.31</i>	<i>0.26</i>	<i>0.33</i>	<i>0.37</i>	<i>0.26</i>
1992	<i>0.36</i>	<i>0.42</i>	<i>0.59</i>	<i>0.56</i>	<i>0.60</i>	<i>0.58</i>	<i>0.54</i>	<i>0.40</i>	<i>0.41</i>	<i>0.40</i>	<i>0.33</i>	<i>0.33</i>	<i>0.33</i>
1993	<i>0.64</i>	<i>0.56</i>	<i>0.42</i>	<i>0.40</i>	<i>0.38</i>	<i>0.35</i>	<i>0.33</i>	<i>0.29</i>	<i>0.38</i>	<i>0.04</i>	<i>0.26</i>	<i>0.26</i>	<i>0.04</i>
1994	<i>0.22</i>	<i>0.35</i>	<i>0.34</i>	<i>0.30</i>	<i>0.20</i>	<i>0.15</i>	<i>0.12</i>	<i>0.10</i>	<i>0.08</i>	<i>0.08</i>	<i>0.12</i>	<i>0.12</i>	<i>0.08</i>
AVER.	<i>0.37</i>	<i>0.46</i>	<i>0.45</i>	<i>0.41</i>	<i>0.38</i>	<i>0.34</i>	<i>0.30</i>	<i>0.26</i>	<i>0.28</i>	<i>0.23</i>	<i>0.25</i>	<i>0.34</i>	<i>0.21</i>

Note: Italic value shows the monthly minimum of daily average water level.

MONTHLY AVERAGE WATER LEVEL
 STATION: 0510 LA BELGICA
 RIVER: RIO PIRAY

NIVEL DE AGUA PROMEDIO MENSUAL

(Unit : m)

YEAR	MONTH												ANNUAL AVER.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977										0.58	1.12	1.03	
1978	0.85	0.83	0.84	0.86	0.88	0.92	0.93	0.75	0.91				
1979				1.16	1.11	0.98	1.00	0.97	0.98	0.62	0.79	0.80	0.70
1980	0.86	0.85	1.01	1.31	1.32	1.33	1.35	1.37	1.36	1.31	1.31	1.35	1.23
1981	1.36	1.37	1.40	1.41	1.36	1.29	1.30	1.30	1.30	1.22	1.24	1.28	1.32
1982	1.35		1.48	1.44		1.46	1.46	1.45	1.44	1.28	1.31	1.33	
1983	1.41	1.14				0.71	0.79	0.82	0.84	0.83		0.88	
1984	0.92	1.04	1.11	1.09		1.18	1.17	1.14	1.16	1.17	1.23	1.49	
1985	1.67	1.82	1.96	2.04	2.16	1.97	2.09	2.20	2.15	2.19	2.15	2.16	2.05
1986	2.23	2.26	2.29	2.28	0.80	0.62	0.68	0.74	0.71	0.73	0.76	0.78	1.24
1987	0.77	0.53	0.42	0.46	0.34	0.29	0.29	0.26	0.21	0.26	0.28	0.35	0.37
1988	0.30	0.29	0.38	0.34	0.38	0.36	0.33	0.29	0.29	0.30	0.19	0.28	0.31
1989	0.35	0.27	0.31	0.30	0.37	0.39	0.34	0.31	0.25	0.30	0.32	0.38	0.32
1990	0.32	0.32	0.27	0.35	0.30	0.34	0.29	0.26	0.25	0.29	0.40	0.42	0.32
1991	0.36	0.22	0.35	0.34	0.40	0.40	0.39	0.39	0.39	0.40	0.44	0.36	0.37
1992	0.36	0.50	0.48	0.42	0.37	0.49	0.51	0.48	0.56	0.54	0.55	0.59	0.49
1993	0.51	0.34	0.27	0.38	0.33	0.35	0.41	0.41	0.30	0.34	0.44	0.54	0.39
1994				0.64	0.59	0.61	0.58	0.49	0.44	0.47	0.52		
AVER.	0.91	0.84	0.90	0.93	0.77	0.81	0.82	0.80	0.80	0.75	0.82	0.88	0.76

MONTHLY MAXIMUM WATER LEVEL NIVEL DE AGUA MAXIMO MENSUAL
 STATION: 0510 LA BELGICA
 RIVER: RIO PIRAY

(Unit : m)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977										1.09	1.68	1.67	
1978	2.10	1.33	1.22	1.17	1.01	1.32	0.96	1.13	1.15				
1979				1.36	1.58	1.13	1.13	1.10	1.04	1.00	1.75	1.23	
1980	1.38	1.40	1.71	1.76	1.68	1.46	1.42	1.51	1.48	1.36	1.55	1.46	1.76
1981	2.11	1.89	2.10	2.20	1.85	1.37	1.35	1.42	1.62	2.04	1.36	1.80	2.20
1982	1.70		2.01	1.49		1.62	1.60	1.55	1.48	1.96	1.76	1.57	
1983	2.30	1.59				0.77	0.93	0.86	0.90	1.09		1.16	
1984	1.18	1.15	1.42	1.40		1.22	1.28	1.21	1.22	1.25	1.64	1.96	
1985	2.05	2.37	2.10	2.41	2.25	2.26	2.24	2.24	2.26	2.23	2.26	2.37	2.41
1986	2.75	2.79	2.73	3.31	2.26	0.73	1.12	0.94	0.93	0.84	0.99	1.13	3.31
1987	1.20	1.54	0.64	0.70	0.40	0.59	0.68	0.52	0.35	0.70	0.76	1.15	1.54
1988	1.12	1.07	1.20	0.50	0.69	0.51	0.44	0.36	0.35	0.42	0.64	1.03	1.20
1989	0.90	0.88	0.62	1.34	0.64	1.05	0.63	0.69	0.40	0.40	0.62	0.76	1.34
1990	0.69	0.69	0.59	1.12	0.80	0.80	0.46	0.46	0.48	0.45	1.38	1.30	1.38
1991	1.64	0.84	0.87	1.17	0.64	1.01	0.53	0.43	0.44	0.63	0.63	0.57	1.64
1992	1.05	1.40	0.78	1.69	1.40	0.68	0.94	0.67	0.80	1.10	0.79	1.63	1.69
1993	1.59	1.63	0.63	0.86	0.79	0.50	0.49	0.91	0.92	0.56	1.01	0.98	1.63
1994	0.98	0.92	0.90	0.83	0.66	0.71	0.86	0.56	0.57	0.93	0.63	0.85	0.98
AVER.	1.55	1.43	1.30	1.46	1.19	1.04	1.00	0.97	0.96	1.06	1.22	1.33	1.76

Note: Italic value shows the monthly maximum of daily average water level.

MONTHLY MINIMUM WATER LEVEL NIVEL DE AGUA MINIMO MENSUAL
 STATION: 0510 LA BELGICA
 RIVER: RIO PIRAY

(Unit : m)

YEAR	MONTH												ANNUAL MIN.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977										0.90	0.92	0.82	
1978	0.62	0.69	0.72	0.80	0.83	0.86	0.90	0.00	0.82				
1979				1.08	0.96	0.93	0.94	0.92	0.91	0.90	0.77	0.66	
1980	0.72	0.72	0.88	1.21	1.24	1.26	1.28	1.32	1.31	1.27	1.27	1.22	0.72
1981	1.20	1.22	1.20	1.27	1.20	1.19	1.21	1.25	1.25	0.99	1.14	1.00	0.99
1982	1.24		1.19	1.41		1.41	1.41	1.38	1.41	1.07	1.22	1.19	
1983	1.27	1.02				0.62	0.66	0.77	0.79	0.73		0.81	
1984	0.78	0.91	1.02	1.00		1.12	1.12	1.08	1.12	1.12	1.13	1.27	
1985	1.53	1.62	1.79	1.92	2.07	1.80	1.87	2.15	1.92	2.13	2.06	2.07	1.53
1986	2.06	2.08	2.09	2.17	0.60	0.35	0.60	0.65	0.59	0.69	0.66	0.70	0.35
1987	0.67	0.37	0.35	0.34	0.26	0.22	0.24	0.20	0.19	0.17	0.18	0.16	0.16
1988	0.04	0.20	0.24	0.26	0.32	0.30	0.25	0.26	0.24	0.26	0.08	0.10	0.04
1989	0.13	0.14	0.22	0.24	0.30	0.25	0.16	0.20	0.17	0.26	0.27	0.26	0.13
1990	0.19	0.18	0.18	0.24	0.18	0.26	0.22	0.20	0.19	0.24	0.00	0.12	0.00
1991	0.09	0.04	0.18	0.17	0.28	0.35	0.36	0.37	0.37	0.35	0.37	0.25	0.04
1992	0.24	0.12	0.36	0.10	0.20	0.39	0.36	0.38	0.49	0.45	0.47	0.47	0.10
1993	0.22	0.12	0.20	0.34	0.19	0.20	0.36	0.35	0.00	0.24	0.25	0.36	0.00
1994	0.40	0.40		0.57	0.52	0.60	0.51	0.42	0.38	0.31	0.46	0.47	
AVER.	0.71	0.66	0.76	0.82	0.65	0.71	0.73	0.70	0.71	0.71	0.70	0.70	0.37

Note: Italic value shows the monthly minimum of daily average water level.

MONTHLY AVERAGE WATER LEVEL NIVEL DE AGUA PROMEDIO MENSUAL
 STATION: 0505 BERMEJO
 RIVER: RIO PIRAY

(Unit : m3/s)

YEAR	MONTH												ANNUAL AVER.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976										0.05	0.09	0.29	
1977	0.42	0.35	0.37	0.60	0.33	0.18	0.16	0.24	0.22	0.13	0.34	0.34	0.31
1978	0.39	0.42	0.20	0.16	0.24	0.28	0.22	0.27	0.33				
1979				0.67	0.71	0.50	0.42	0.27	0.24	0.18	0.23	0.17	
1980	0.39	0.43	0.66	0.54	0.39	0.32	0.27	0.39	0.29	0.27	0.22	0.31	0.37
1981	0.56	0.68	0.86	0.45	0.42	0.38	0.28	0.25	0.42	0.58	0.18	0.99	0.50
1982	0.69	0.84	0.99	0.58	0.52	0.43	0.48	0.38	0.38	0.60	0.71	0.54	0.60
1983	0.82	0.61	1.30	0.69			0.47	0.25	0.15	0.22	0.21	0.19	
1984	0.32	0.21	0.38	0.32	0.17	0.16	0.09	0.12	0.02	0.04	0.41	0.45	0.22
1985	0.34	0.45	0.33	0.29	0.17	0.16	0.16	0.10	0.29	0.26	0.24	0.31	0.26
1986	0.41	0.47	0.52	0.36	0.22	0.15	0.13	0.10	0.14	0.12	0.09	0.19	0.24
1987	0.23	0.27	0.10	0.27	0.24	0.19	0.13	0.07	0.10	0.18	0.22	0.35	0.20
1988	0.34	0.26	0.41	0.24	0.34	0.27	0.24	0.16	0.16	0.16	0.14	0.24	0.25
1989	0.49	0.45	0.27	0.35	0.30	0.31	0.27	0.22	0.22	0.19	0.17	0.23	0.29
1990	0.26	0.27	0.20	0.21	0.26	0.29	0.21	0.25	0.19	0.17	0.27	0.34	0.24
1991	0.53	0.67	0.55	0.53	0.31	0.28	0.25	0.22	0.19	0.26	0.37	0.30	0.37
1992	0.35	0.84	0.35	0.36	0.42	0.41	0.38	0.14	0.33	0.40	0.35	0.43	0.40
1993	0.50	0.33	0.21	0.20	0.22	0.15	0.19	0.25	0.32	0.23	0.26	0.46	0.28
1994				0.39	0.28	0.22	0.14	0.09	0.04	0.19	0.10		
AVER.	0.44	0.47	0.48	0.40	0.33	0.28	0.25	0.21	0.22	0.24	0.26	0.36	0.32

MONTHLY MAXIMUM WATER LEVEL NIVEL DE AGUA MAXIMO MENSUAL
 STATION: 0505 BERMEJO
 RIVER: RIO PIRAY

(Unit : m³/s)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976										0.27	1.46	2.62	
1977	2.60	1.90	1.72	3.70	0.72	0.35	0.58	1.86	1.22	0.23	2.18	1.93	3.70
1978	3.30	1.81	0.58	0.65	0.86	1.11	0.32	2.62	1.68				
1979				1.60	1.35	0.98	1.20	0.45	0.47	0.29	1.15	0.46	
1980	2.72	2.16	2.48	1.76	0.88	0.90	0.44	1.14	0.38	0.52	0.64	1.43	2.72
1981	2.24	3.40	3.50	1.52	1.02	0.60	0.35	0.76	1.03	2.19	0.28	2.07	3.50
1982	1.23	1.85	2.02	0.83	0.91	0.55	1.14	0.43	0.51	1.16	1.33	0.81	2.02
1983	3.33	2.50	9.73	1.96			1.13	0.49	0.28	2.10	0.72	0.73	9.73
1984	1.47	0.40	1.61	0.98	0.68	0.35	0.33	0.72	0.10	0.33	1.52	1.30	1.61
1985	1.61	2.22	1.38	1.17	0.58	1.62	1.18	0.44	0.54	0.70	0.64	1.07	2.22
1986	2.55	1.45	1.45	2.14	1.12	0.49	1.88	0.31	0.79	0.60	1.09	1.95	2.55
1987	1.21	3.76	0.67	1.79	0.62	0.60	0.30	0.31	1.04	1.92	1.78	2.26	3.76
1988	2.29	1.60	2.70	0.70	0.81	0.47	0.47	0.19	0.31	1.79	0.55	1.64	2.70
1989	1.84	1.91	0.66	1.93	0.71	1.54	0.90	0.63	0.53	0.58	1.43	0.82	1.93
1990	0.79	0.80	0.36	1.48	1.49	1.28	0.36	1.56	0.75	0.54	1.90	2.15	2.15
1991	4.48	2.24	2.21	2.88	0.40	1.44	0.38	0.38	0.38	1.59	1.59	0.63	4.48
1992	2.18	3.63	0.79	2.40	1.79	1.72	1.81	0.47	0.94	2.97	0.90	1.89	3.63
1993	3.48	1.66	0.94	0.47	1.68	0.50	0.98	3.16	1.42	1.38	1.88	1.78	3.48
1994	2.50	1.34	1.12	1.49	0.80	0.74	0.52	0.29	0.19	1.09	0.24	1.61	2.50
AVER.	2.34	2.04	2.00	1.64	0.97	0.90	0.79	0.90	0.70	1.13	1.18	1.51	3.29

Note: Italic value shows the monthly maximum of daily average water level.

MONTHLY MINIMUM WATER LEVEL
 STATION: 0505 BERMEJO
 RIVER: RIO PIRAY

NIVEL DE AGUA MINIMO MENSUAL

(Unit: m)

YEAR	MONTH												ANNUAL MIN
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976										0.02	0.01	0.00	
1977	0.21	1.14	0.10	0.29	0.18	0.13	0.10	0.11	0.12	0.10	0.10	0.16	0.10
1978	0.12	0.15	0.09	0.08	0.14	0.21	0.17	0.16	0.26				
1979				0.44	0.42	0.34	0.29	0.21	0.19	0.12	0.14	0.10	
1980	0.11	0.26	0.34	0.36	0.28	0.26	0.22	0.22	0.24	0.20	0.15	0.18	0.11
1981	0.24	0.36	0.42	0.13	0.30	0.30	0.24	0.20	0.30	0.30	0.12	0.63	0.12
1982	0.48	0.44	0.67	0.49	0.42	0.39	0.39	0.34	0.32	0.35	0.40	0.43	0.32
1983	0.38	0.38	0.45	0.35			0.25	0.16	0.11	0.08	0.11	0.10	
1984	0.11	0.10	0.08	0.15	0.10	0.09	0.02	0.02	0.00	0.00	0.02	0.22	0.00
1985	0.17	0.15	0.14	0.12	0.08	0.01	0.03	0.00	0.03	0.18	0.17	0.17	0.00
1986	0.20	0.20	0.35	0.22	0.13	0.11	0.06	0.06	0.02	0.01	0.00	0.04	0.00
1987	0.10	0.10	0.03	0.06	0.16	0.13	0.10	0.04	0.06	0.06	0.10	0.16	0.03
1988	0.08	0.10	0.07	0.10	0.23	0.21	0.19	0.14	0.13	0.12	0.10	0.11	0.07
1989	0.24	0.25	0.20	0.22	0.23	0.24	0.21	0.19	0.16	0.15	0.11	0.14	0.11
1990	0.17	0.19	0.18	0.16	0.17	0.20	0.19	0.17	0.12	0.12	0.13	0.15	0.12
1991	0.23	0.37	0.32	0.37	0.25	0.22	0.22	0.19	0.17	0.17	0.22	0.23	0.17
1992	0.20	0.20	0.19	0.17	0.22	0.18	0.16	0.08	0.09	0.22	0.25	0.26	0.08
1993	0.26	0.17	0.11	0.15	0.12	0.11	0.10	0.07	0.19	0.14	0.03	0.16	0.03
1994	0.18	0.00	0.21	0.23	0.20	0.12	0.09	0.05	0.03	0.05	0.07	0.08	0.00
AVER.	0.20	0.27	0.23	0.23	0.21	0.19	0.17	0.13	0.14	0.13	0.12	0.18	0.08

Note: Italic value shows the monthly minimum of daily average water level.

MONTHLY AVERAGE WATER LEVEL - NIVEL DE AGUA PROMEDIO MENSUAL
 STATION: 0504 COLORADO
 RIVER: RIO PIRAY

(Unit: m)

YEAR	MONTH												ANNUAL AVER.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981	0.33	0.38	0.37	0.21	0.22	0.17	0.14	0.14	0.14	0.30	0.28	0.44	0.26
1982	0.28	0.35	0.46	0.28	0.26	0.24	0.25	0.22	0.22	0.32	0.36	0.26	0.29
1983	0.38	0.34	0.62	0.59	0.45	0.36	0.53	0.35	0.35	0.48	0.62	0.62	0.47
1984	0.61	0.52	0.68	0.81	0.67	0.65	0.58	0.71	0.61	0.58	0.76		
1985	0.65	0.67	0.68	0.58	0.38	0.37	0.44	0.32	0.31	0.38	0.40	0.45	0.47
1986	0.38	0.40	0.41	0.27	0.26	0.15	0.17	0.15	0.20	0.15	0.13	0.22	0.24
1987	0.19	0.22	0.19	0.25	0.25	0.19	0.19	0.16	0.17	0.16	0.20	0.17	0.20
1988	0.18	0.23	0.37	0.09	0.09	0.06	0.07	0.04	0.04	0.05	0.11	0.20	0.13
1989	0.27	0.22	0.27	0.35	0.26	0.23	0.19	0.18	0.14	0.11	0.10	0.08	0.20
1990	0.09	0.09	0.05	0.08	0.19	0.23	0.11	0.10	0.08	0.06	0.12	0.19	0.12
1991	0.21	0.11	0.25	0.31	0.12	0.11	0.07	0.08	0.06	0.17	0.20	0.17	0.16
1992	0.22	0.47	0.19	0.22	0.26	0.22	0.19	0.08	0.10	0.14	0.14	0.17	0.20
1993	0.30	0.18	0.11	0.11	0.14	0.08	0.12	0.19	0.18	0.16	0.16	0.22	0.16
1994						0.12	0.07	0.04	0.04	0.14	0.04		
AVER.	0.31	0.32	0.36	0.32	0.27	0.23	0.22	0.20	0.19	0.23	0.26	0.27	0.24

MONTHLY MAXIMUM WATER LEVEL NIVEL DE AGUA MAXIMO MENSUAL

STATION: 0504 COLORADO

RIVER: RIO PIRAY

(Unit: m)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981	<i>1.13</i>	<i>1.64</i>	<i>1.54</i>	<i>0.30</i>	<i>0.39</i>	<i>0.28</i>	<i>0.16</i>	<i>0.32</i>	<i>0.40</i>	<i>1.07</i>	<i>0.57</i>	<i>1.52</i>	1.64
1982	<i>0.50</i>	<i>0.77</i>	<i>1.22</i>	<i>0.45</i>	<i>0.45</i>	<i>0.33</i>	<i>0.69</i>	<i>0.24</i>	<i>0.26</i>	<i>0.93</i>	<i>1.07</i>	<i>0.40</i>	1.22
1983	<i>1.91</i>	<i>1.44</i>	<i>5.10</i>	<i>2.13</i>	<i>1.68</i>	<i>0.51</i>	<i>0.93</i>	<i>0.53</i>	<i>0.71</i>	<i>1.22</i>	<i>1.06</i>	<i>1.10</i>	5.10
1984	<i>1.67</i>	<i>0.57</i>	<i>1.86</i>	<i>1.51</i>	<i>0.96</i>	<i>0.78</i>	<i>0.72</i>	<i>0.90</i>	<i>0.68</i>	<i>0.65</i>	<i>1.58</i>		
1985	<i>1.38</i>	<i>1.96</i>	<i>1.53</i>	<i>1.23</i>	<i>0.78</i>	<i>1.62</i>	<i>1.45</i>	<i>0.56</i>	<i>0.64</i>	<i>0.46</i>	<i>0.72</i>	<i>1.10</i>	1.96
1986	<i>2.50</i>	<i>1.63</i>	<i>1.40</i>	<i>1.55</i>	<i>0.90</i>	<i>0.39</i>	<i>2.55</i>	<i>0.24</i>	<i>0.75</i>	<i>0.38</i>	<i>0.80</i>	<i>1.54</i>	2.55
1987	<i>0.70</i>	<i>2.06</i>	<i>0.54</i>	<i>1.60</i>	<i>0.45</i>	<i>0.42</i>	<i>0.26</i>	<i>0.40</i>	<i>0.80</i>	<i>0.66</i>	<i>1.11</i>	<i>1.30</i>	2.06
1988	<i>1.95</i>	<i>1.00</i>	<i>1.88</i>	<i>0.17</i>	<i>0.36</i>	<i>0.11</i>	<i>0.20</i>	<i>0.06</i>	<i>0.16</i>	<i>1.30</i>	<i>0.36</i>	<i>1.40</i>	1.95
1989	<i>1.33</i>	<i>1.65</i>	<i>0.53</i>	<i>1.45</i>	<i>0.60</i>	<i>1.20</i>	<i>0.50</i>	<i>0.58</i>	<i>0.34</i>	<i>0.80</i>	<i>0.56</i>	<i>0.52</i>	1.65
1990	<i>0.42</i>	<i>0.39</i>	<i>0.10</i>	<i>1.10</i>	<i>1.32</i>	<i>0.80</i>	<i>0.20</i>	<i>0.71</i>	<i>0.53</i>	<i>0.24</i>	<i>1.53</i>	<i>1.60</i>	1.60
1991	<i>3.06</i>	<i>1.06</i>	<i>1.22</i>	<i>2.80</i>	<i>0.25</i>	<i>1.11</i>	<i>0.26</i>	<i>0.27</i>	<i>0.24</i>	<i>1.25</i>	<i>0.96</i>	<i>0.50</i>	3.06
1992	<i>2.04</i>	<i>2.06</i>	<i>0.44</i>	<i>1.85</i>	<i>1.17</i>	<i>1.07</i>	<i>1.07</i>	<i>0.26</i>	<i>0.49</i>	<i>2.09</i>	<i>0.32</i>	<i>0.84</i>	2.09
1993	<i>2.80</i>	<i>1.09</i>	<i>0.90</i>	<i>0.29</i>	<i>1.05</i>	<i>0.31</i>	<i>0.58</i>	<i>2.25</i>	<i>0.71</i>	<i>1.01</i>	<i>1.22</i>	<i>1.24</i>	2.80
1994	<i>1.67</i>	<i>1.10</i>	<i>0.68</i>	<i>0.96</i>	<i>0.33</i>	<i>0.42</i>	<i>0.35</i>	<i>0.23</i>	<i>0.18</i>	<i>0.61</i>	<i>0.13</i>	<i>0.68</i>	1.67
AVER.	1.64	1.32	1.35	1.24	0.76	0.68	0.71	0.54	0.49	0.91	0.86	1.06	2.26

Note: Italic value shows the monthly maximum of daily average water level.

MONTHLY MINIMUM WATER LEVEL NIVEL DE AGUA MINIMO MENSUAL
 STATION: 0504 COLORADO
 RIVER: RIO PIRAY

(Unit : m)

YEAR	MONTH												ANNUAL MIN
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981	0.23	0.26	0.25	0.17	0.16	0.14	0.14	0.11	0.10	0.13	0.20	0.28	0.10
1982	0.23	0.21	0.27	0.22	0.21	0.22	0.21	0.20	0.20	0.18	0.22	0.19	0.18
1983	0.00	0.26	0.18	0.30	0.29	0.29	0.34	0.25	0.24	0.22	0.46	0.37	0.00
1984	0.37	0.46	0.44	0.68	0.57	0.57	0.50	0.49	0.55	0.52	0.44		
1985	0.45	0.49	0.47	0.35	0.33	0.25	0.32	0.25	0.22	0.32	0.33	0.34	0.22
1986	0.10	0.18	0.24	0.17	0.15	0.10	0.08	0.12	0.13	0.10	0.08	0.06	0.06
1987	0.11	0.10	0.12	0.09	0.20	0.15	0.17	0.14	0.12	0.06	0.12	0.04	0.04
1988	0.01	0.01	0.14	0.06	0.05	0.04	0.03	0.04	0.02	0.03	0.06	0.04	0.01
1989	0.13	0.06	0.23	0.25	0.18	0.16	0.15	0.14	0.11	0.05	0.05	0.04	0.04
1990	0.05	0.06	0.05	0.05	0.08	0.09	0.06	0.06	0.06	0.05	0.05	0.07	0.05
1991	0.04	0.01	0.15	0.18	0.07	0.06	0.05	0.06	0.04	0.00	0.08	0.12	0.00
1992	0.08	0.12	0.10	0.10	0.12	0.11	0.09	0.06	0.05	0.03	0.10	0.10	0.03
1993	0.20	0.09	0.07	0.08	0.06	0.06	0.07	0.11	0.10	0.07	0.07	0.10	0.06
1994	0.07	0.14	0.10		0.09	0.07	0.04	0.03	0.02	0.04	0.02	0.02	
AVER.	0.15	0.18	0.20	0.21	0.18	0.17	0.16	0.15	0.14	0.13	0.16	0.14	0.07

Note: Italic value shows the monthly minimum of daily average water level.

MONTHLY AVERAGE WATER LEVEL NIVEL DE AGUA PROMEDIO MENSUAL
 STATION: 0512 EISENIOWER
 RIVER: RIO PIRAY

(Unit : m)

YEAR	MONTH												ANNUAL AVER.	
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.		
1960														
1961														
1962														
1963														
1964														
1965														
1966														
1967														
1968														
1969														
1970														
1971														
1972														
1973														
1974														
1975														
1976														
1977										0.37	0.51	0.65		
1978	0.69	0.54	0.51	0.47	0.51	0.51	0.39	0.27	0.38					
1979				0.58	0.62	0.38	0.37	0.30	0.25	0.26	0.35	0.31		
1980	0.52	0.71	0.76	0.65	0.72	0.59	0.41	0.45	0.45	0.34	0.41	0.40	0.53	
1981	0.69	0.56	0.75	0.51	0.73	0.47	0.30	0.35	0.32	0.77	0.80	1.16	0.62	
1982	0.94	0.90	0.69	0.60	0.61	0.84	0.38	0.50	0.48	0.77	0.62	0.67	0.68	
1983	0.66	0.56	0.70	0.60	0.79	0.54	0.63	0.41	0.36	0.35	0.41	0.52	0.54	
1984	0.64	0.54	0.43	0.45	0.32	0.29	0.25	0.19	0.18	0.19	0.44	0.52	0.37	
1985	0.43	0.52	0.63	0.67	0.43	0.44	0.56	0.11	0.05	0.03	0.03	0.04	0.33	
1986			0.47		1.00	0.99	0.93	0.94	0.94	0.90	0.80	1.08		
1987	0.91	0.71	0.91	0.94	0.88	0.74	0.66	0.66	0.56	0.60	0.58	0.80	0.75	
1988	0.54	0.26	0.50	0.60	0.51	0.46	0.46	0.38	0.41	0.44	0.24	0.45	0.44	
1989	0.73	0.75	0.60	0.77	1.03	1.07	0.99	1.08	0.92	0.81	0.67	0.92	0.86	
1990	1.15	1.12	0.90	0.81	0.95	0.90	0.82	0.78	0.74	0.72	0.76	0.83	0.87	
1991	1.04	0.79	0.58	0.35	0.73	0.74	0.67	0.67	0.67	0.73	0.76	0.75	0.71	
1992	0.62	0.86	0.88	0.82	0.72	0.68	0.74	0.75	0.78	0.66	0.67	0.71	0.74	
1993	0.49	0.39	0.44	0.56	0.50	0.43	0.45	0.44	0.64	0.62	0.81	0.88	0.55	
1994					0.76						0.65			
AVER.	0.72	0.66	0.65	0.63	0.69	0.63	0.58	0.52	0.51	0.54	0.56	0.67	0.62	

MONTHLY MAXIMUM WATER LEVEL. NIVEL DE AGUA MAXIMO MENSUAL
 STATION: 0512 EISENTOWER
 RIVER: RIO PIRAY

(Unit: m)

YEAR	MONTH												ANNUAL MAX.	
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.		
1960														
1961														
1962														
1963														
1964														
1965														
1966														
1967														
1968														
1969														
1970														
1971														
1972														
1973														
1974														
1975														
1976														
1977										0.49	1.33	1.50		
1978	2.30	1.07	1.56	0.85	0.82	1.34	0.77	0.67	1.01					
1979				1.03	2.25	0.41	0.45	0.38	0.56	0.85	1.32	0.67		
1980	1.29	1.21	1.60	2.15	2.38	1.15	0.52	0.90	1.66	0.44	1.24	0.77	2.38	
1981	2.10	1.48	2.25	2.87	2.40	0.99	0.42	1.07	1.34	2.17	1.47	2.15	2.87	
1982	1.45	1.97	1.08	0.83	1.76	1.60	0.74	0.96	0.72	1.52	1.56	1.39	1.97	
1983	1.53	0.99	1.76	0.90	2.43	0.73	1.18	0.54	0.51	0.75	0.81	1.00	2.43	
1984	1.13	0.79	0.75	0.96	0.49	0.53	0.57	0.41	0.37	0.52	0.68	1.53	1.53	
1985	0.82	0.90	1.45	1.24	0.72	0.91	1.89	1.24	0.23	0.27	0.18	0.20	1.89	
1986	2.30	1.88	1.18	2.22	2.52	1.50	1.52	1.52	1.62	1.39	1.42	2.62	2.62	
1987	2.47	1.64	1.33	2.13	1.12	2.18	3.10	1.97	0.66	1.04	1.33	2.65	3.10	
1988	1.94	1.32	2.06	1.45	0.70	0.54	0.58	0.43	0.57	0.81	1.07	1.82	2.06	
1989	2.25	2.07	1.96	2.00	1.41	2.37	1.43	2.49	1.10	1.08	2.04	2.41	2.49	
1990	1.94	1.88	2.40	1.51	1.65	2.02	1.21	1.04	1.31	1.10	1.63	1.52	2.40	
1991	2.31	1.54	1.37	1.27	2.20	1.35	1.23	0.74	0.81	1.19	1.30	1.72	2.31	
1992	2.35	2.30	1.68	2.40	2.00	1.10	1.63	1.24	1.53	1.44	1.26	2.00	2.40	
1993	1.73	2.21	0.98	0.83	1.05	0.68	0.72	0.64	1.70	1.43	1.97	2.08	2.21	
1994	1.43	1.82	1.80	1.28	0.91	1.03	1.20	0.72	0.65	1.41	0.82	1.47	1.82	
AVER.	1.83	1.57	1.58	1.52	1.58	1.20	1.13	1.00	0.96	1.05	1.26	1.62	2.30	

Note: Italic value shows the monthly maximum of daily average water level.

MONTHLY MINIMUM WATER LEVEL NIVEL DE AGUA MINIMO MENSUAL
 STATION: 0512 EISENTOWER
 RIVER: RIO PIRAY

(Unit : m)

YEAR	MONTH												ANNUAL MIN.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978	0.39	0.37	0.38	0.38	0.41	0.39	0.30	0.19	0.21	0.16	0.17	0.44	
1979					0.40	0.34	0.31	0.21	0.00	0.00	0.00	0.14	
1980	0.00	0.41	0.47	0.38	0.38	0.48	0.35	0.32	0.26	0.29	0.23	0.26	0.00
1981	0.27	0.41	0.40	0.35	0.34	0.38	0.25	0.21	0.15	0.30	0.67	0.63	0.15
1982	0.74	0.53	0.58	0.41	0.33	0.61	0.40	0.37	0.32	0.40	0.39	0.35	0.32
1983	0.30	0.39	0.36	0.42	0.45	0.44	0.46	0.35	0.26	0.26	0.26	0.33	0.26
1984	0.41	0.41	0.30	0.28	0.26	0.23	0.16	0.09	0.11	0.09	0.17	0.06	0.06
1985	0.04	0.41	0.43	0.46	0.34	0.33	0.39	0.00	0.00	0.00	0.00	0.00	0.00
1986	0.12	0.12	0.23	0.07	0.72	0.92	0.81	0.75	0.80	0.75	0.69	0.76	0.07
1987	0.39	0.38	0.72	0.83	0.79	0.59	0.48	0.53	0.51	0.46	0.44	0.47	0.38
1988	0.16	0.08	0.07	0.41	0.42	0.42	0.41	0.34	0.33	0.33	0.09	0.15	0.07
1989	0.41	0.53	0.29	0.54	0.94	0.89	0.88	0.97	0.81	0.68	0.48	0.55	0.29
1990	0.12	0.90	0.77	0.72	0.77	0.66	0.70	0.64	0.64	0.62	0.09	0.65	0.09
1991	0.76	0.64	0.19	0.20	0.49	0.51	0.57	0.61	0.60	0.63	0.68	0.56	0.19
1992	0.31	0.29	0.77	0.41	0.35	0.59	0.64	0.69	0.00	0.50	0.56	0.52	0.00
1993	0.18	0.00	0.29	0.47	0.42	0.40	0.40	0.38	0.30	0.44	0.58	0.59	0.00
1994	0.44	0.79	0.60	0.69	0.72	0.67	0.66	0.60	0.50		0.57	0.63	
AVER.	0.32	0.42	0.43	0.44	0.50	0.52	0.48	0.43	0.34	0.37	0.36	0.42	0.13

Note: Italic value shows the monthly minimum of daily average water level.

MONTHLY AVERAGE WATER LEVEL. NIVEL DE AGUA PROMEDIO MENSUAL

STATION: 0520 ESPEJOS

RIVER: RIO FIRAY

(Unit : m)

YEAR	MONTH												ANNUAL AVER
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976												0.23	
1977	0.09	0.08	0.09	0.20	0.23	0.22	0.26	0.15	0.20	0.22	0.11	0.10	0.16
1978	0.22	0.26	0.25	0.24	0.30	0.37	0.38	0.38	0.37				
1979				0.60	0.64	0.57	0.56	0.55	0.55	0.54	0.54	0.53	
1980	0.53	0.44	0.58	0.44	0.39	0.37	0.36	0.36	0.33	0.33	0.32	0.34	0.40
1981	0.40	0.46	0.44	0.36	0.18	0.15	0.10	0.08	0.10	0.71	0.63	0.77	0.37
1982	0.61	0.67	0.67	0.53	0.55	0.51	0.50		0.46			0.59	
1983		0.71	1.14	0.60	0.84	0.88	0.98	0.87	0.85	0.83	0.80	0.78	
1984	0.70	0.50	0.44	0.20	0.18	0.35	0.43	0.36	0.33	0.32	0.48	0.45	0.40
1985	0.38	0.40	0.37	0.36	0.26	0.22	0.22	0.17	0.17	0.12	0.13	0.15	0.25
1986	0.17	0.30	0.21	0.21	0.31	0.35	0.36	0.34	0.39	0.38	0.37	0.40	0.32
1987	0.36	0.34	0.28	0.33	0.32	0.34	0.29	0.29	0.27	0.30	0.35	0.41	0.32
1988	0.36	0.25	0.36	0.13	0.13	0.08	0.05	0.02	0.20	0.20	0.24	0.27	0.19
1989	0.40	0.35	0.26	0.25	0.34	0.27	0.20	0.13	0.13	0.09	0.08	0.12	0.22
1990	0.15	0.18	0.10	0.14	0.18	0.21	0.08	0.08	0.09	0.09	0.12	0.18	0.13
1991	0.29	0.43	0.34	0.30	0.23	0.27	0.17	0.14	0.12	0.21	0.30	0.24	0.25
1992	0.21	0.40	0.26	0.29	0.37	0.29	0.15	0.24	0.34	0.33	0.25	0.33	0.29
1993	0.43	0.41	0.26	0.29	0.31	0.31	0.35	0.35	0.32	0.31	0.39	0.43	0.35
1994						0.33	0.26	0.21		0.37	0.21	0.31	
AVER.	0.35	0.39	0.38	0.32	0.34	0.34	0.32	0.28	0.31	0.33	0.33	0.37	0.28

MONTHLY MAXIMUM WATER LEVEL NIVEL DE AGUA MAXIMO MENSUAL
 STATION: 0520 ESPEJOS
 RIVER: RIO PIRAY

(Unit: m)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975												1.52	
1976												0.74	2.30
1977	2.30	0.58	0.78	1.30	0.34	0.35	0.50	0.45	0.24	0.26	0.72	0.74	2.30
1978	2.90	0.56	0.34	0.40	0.72	0.90	0.39	0.46	0.54				
1979				1.00	0.96	0.65	0.66	0.68	0.60	0.57	0.67	0.69	
1980	0.80	1.67	1.70	1.90	0.60	0.49	0.41	0.78	0.46	0.39	0.56	0.56	1.90
1981	0.66	1.02	1.36	2.28	1.14	0.20	0.12	0.15	0.74	1.77	0.68	1.28	2.28
1982	0.73	1.24	1.08	0.63	1.13	0.62	0.72		0.81			0.83	
1983		1.21	1.54	0.89	1.39	1.00	1.33	0.91	0.90	1.19	1.10	1.01	
1984	1.38	0.71	0.89	0.95	0.22	0.54	0.71	0.63	0.51	0.52	0.84	1.14	1.38
1985	0.96	0.82	0.91	0.69	0.62	0.63	0.60	0.25	0.34	0.17	0.30	0.48	0.96
1986	1.44	1.33	0.56	2.60	1.00	0.61	0.52	0.41	0.72	0.64	0.71	1.07	2.60
1987	0.56	0.91	0.63	0.74	0.46	0.62	0.46	0.58	0.57	1.24	1.54	2.40	2.40
1988	1.92	0.51	1.76	0.44	0.40	0.18	0.21	0.06	0.34	1.02	0.50	2.01	2.01
1989	1.48	1.52	0.39	2.79	1.30	1.72	0.87	0.71	0.46	0.46	0.17	0.75	2.79
1990	1.18	0.71	0.30	1.86	1.80	1.09	0.21	0.46	0.61	0.48	1.51	2.52	2.52
1991	4.15	1.48	1.01	1.70	0.41	2.58	0.35	0.26	0.20	0.77	0.72	0.91	4.15
1992	1.52	2.40	1.36	3.50	1.91	0.90	1.02	0.46	0.83	2.14	0.66	3.10	3.50
1993	2.25	4.12	0.57	1.78	1.82	0.61	0.83	1.45	0.72	1.20	1.73	2.64	4.12
1994	1.07	2.11	0.96	0.71	0.53	0.58	0.52	0.31	0.34	2.92	0.35	1.23	2.92
AVER.	1.58	1.33	0.95	1.46	0.93	0.79	0.58	0.53	0.55	0.98	0.80	1.38	2.56

Note: Italic value shows the monthly maximum of daily average water level.

MONTHLY MINIMUM WATER LEVEL NIVEL DE AGUA MINIMO MENSUAL
 STATION: 0520 ESPEJOS
 RIVER: RIO PIRAY

(Unit : m)

YEAR	MONTH												ANNUAL MIN.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976												0.14	
1977	0.02	0.01	0.05	0.13	0.18	0.18	0.21	0.07	0.17	0.19	-0.03	0.05	-0.03
1978	0.07	0.19	0.22	0.21	0.24	0.32	0.37	0.37	0.35				
1979				0.57	0.56	0.55	0.55	0.53	0.54	0.53	0.45	0.50	
1980	0.49	0.30	0.41	0.30	0.30	0.34	0.33	0.32	0.31	0.30	0.29	0.29	0.29
1981	0.33	0.38	0.34	0.15	0.09	0.12	0.09	0.06	0.05	0.53	0.60	0.64	0.05
1982	0.56	0.51	0.54	0.48	0.46	0.48	0.46		0.41			0.52	
1983		0.64	1.04	0.46	0.66	0.78	0.86	0.83	0.83	0.77	0.71	0.71	
1984	0.51	0.39	0.36	0.03	0.02	0.15	0.34	0.32	0.30	0.26	0.29	0.20	0.02
1985	0.19	0.35	0.26	0.26	0.21	0.17	0.17	0.14	0.14	0.09	0.09	0.10	0.09
1986	0.07	0.10	0.15	0.03	0.26	0.32	0.33	0.32	0.31	0.33	0.31	0.32	0.03
1987	0.32	0.29	0.25	0.26	0.29	0.29	0.25	0.26	0.24	0.24	0.23	0.21	0.21
1988	0.21	0.19	0.18	0.10	0.08	0.04	0.02	0.02	0.02	0.16	0.18	0.17	0.02
1989	0.28	0.26	0.23	0.10	0.20	0.15	0.13	0.09	0.10	0.07	0.07	0.07	0.07
1990	0.09	0.12	0.06	0.09	0.09	0.09	0.06	0.06	0.06	0.06	0.04	0.01	0.01
1991	0.11	0.28	0.24	0.22	0.18	0.16	0.14	0.12	0.11	0.13	0.22	0.14	0.11
1992	0.09	0.08	0.14	0.10	0.19	0.23	0.04	0.02	0.29	0.27	0.19	0.22	0.02
1993	0.36	0.28	0.23	0.23	0.22	0.28	0.31	0.27	0.25	0.27	0.25	0.26	0.22
1994	0.40	0.42	0.35	0.39	0.34	0.26	0.22	0.18	0.16	0.20	0.16	0.16	0.16
AVG.	0.26	0.28	0.30	0.23	0.25	0.27	0.27	0.23	0.26	0.28	0.25	0.26	0.09

Note: Italic value shows the monthly minimum of daily average water level.

MONTHLY AVERAGE WATER LEVEL

NIVEL DE AGUA PROMEDIO MENSUAL

STATION: 0530 SAN PEDRO DE TEREVINTO

RIVER: RIO PIRAY

(Unit : m)

YEAR	MONTH												ANNUAL AVER
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988											0.21	0.24	
1989	0.25	0.28	0.28	0.30	0.37	0.34	0.32	0.28	0.25	0.21	0.21	0.27	0.28
1990	0.32	0.38	0.34	0.34	0.40	0.42	0.38	0.37	0.36	0.31	0.35	0.41	0.37
1991			0.50	0.48	0.44	0.46	0.45	0.46	0.45	0.45	0.44	0.50	
1992	0.53	0.60				0.65	0.62	0.57					
1993													
1994													
AVER.	0.37	0.42	0.37	0.37	0.40	0.47	0.44	0.42	0.35	0.32	0.30	0.36	0.32

MONTHLY MAXIMUM WATER LEVEL

NIVEL DE AGUA MAXIMO MENSUAL

STATION: 0530 SAN PEDRO DE TEREVINTO
 RIVER: RIO PIRAY

(Unit : m)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988											0.32	1.40	
1989	1.70	2.19	1.22	1.34	0.66	1.50	0.43	0.56	0.31	0.25	0.40	0.67	2.19
1990	0.88	0.75	0.45	0.80	0.82	0.89	0.45	0.52	0.69	0.47	1.23	1.40	1.40
1991	0.60	0.80	1.48	1.90	0.97	0.99	0.55	0.52	0.48	0.51	0.81	0.95	1.90
1992	1.60	2.37	0.76	2.35	0.96	1.00	1.18	0.68	0.76	0.93	1.02	2.08	2.37
1993	1.55	0.78	0.58	2.00	1.48	0.55	0.73	0.89	0.98	2.00	2.26		
1994													
AVER.	1.27	1.38	0.90	1.68	0.98	0.99	0.67	0.63	0.64	0.83	1.01	1.30	1.97

Note: *Italic value shows the monthly maximum of daily average water level.*

MONTHLY MINIMUM WATER LEVEL

NIVEL DE AGUA MINIMO MENSUAL

STATION: 0530 SAN PEDRO DE TEREVINTO

RIVER: RIO PIRAY

(Unit : m)

YEAR	MONTH												ANNUAL MIN.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988											0.11	0.19	
1989	0.12	0.21	0.24	0.24	0.00	0.30	0.29	0.23	0.22	0.18	0.18	0.19	0.00
1990	0.27	0.28	0.32	0.31	0.34	0.36	0.35	0.35	0.30	0.26	0.28	0.30	0.26
1991	0.36		0.42	0.40	0.39	0.40	0.42	0.44	0.44	0.00	0.40	0.42	
1992	0.41	0.44	0.45	0.46		0.59	0.50	0.51	0.54	0.57	0.54	0.53	
1993		0.40	0.31	0.31	0.32	0.40	0.42	0.46	0.47	0.42	0.40		
1994													
AVER.	0.29	0.33	0.35	0.34	0.26	0.41	0.40	0.40	0.39	0.29	0.32	0.33	0.13

Note: Italic value shows the monthly minimum of daily average water level.

MONTHLY AVERAGE DISCHARGE
 STATION: 0506 ANGOSTURA
 RIVER: RIO PIRAY

DESCARGA PROMEDIO MENSUAL

(Unit : m³/s)

YEAR	MONTH												ANNUAL AVER.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976	10.59	12.39	4.58	5.90	5.91	2.59	2.40	2.44	2.24	1.78	1.47	4.88	4.76
1977	7.42	7.52	3.73	13.47	5.63	2.50	1.95	3.57	3.22	1.73	7.01	5.40	5.26
1978	15.03	11.12	3.69	3.24	1.89	1.98	1.44	2.39	2.11	1.31	5.77	22.18	6.01
1979	16.35	28.02	19.39	10.19	10.43	5.54	4.17	2.86	2.58	1.85	7.41	3.15	9.33
1980	8.68	7.78	30.88	11.57	4.33	3.28	2.61	4.18	2.16	1.92	2.43	3.69	6.96
1981	24.07	14.64	29.20	7.93	4.97	3.68	2.62	2.19	1.97	6.30	4.39	32.00	11.16
1982	13.02	28.78	68.78	10.79	4.08	2.32	3.10	1.79	1.50	6.12	10.07	5.57	12.99
1983		13.34		33.77	26.59	14.36	16.12	9.38	6.42	7.66	8.47	7.50	11.97
1984	15.01	5.73		18.02	6.63	5.63	3.58	4.79	2.66	2.98	25.41		
1985	27.85		45.59	38.62	13.16	16.49	16.74	8.21	8.15	5.03	4.83	16.02	
1986	36.45	31.18	28.70	18.90	9.12	3.84	2.48	3.02	3.41	6.99	8.96	2.67	12.98
1987	10.61	13.59	4.93	9.80	5.76	4.55	2.99	1.72	3.12	6.48	6.96	14.35	7.07
1988	16.54	11.71	34.10	8.45	6.83	2.85	3.20	2.82	2.27	3.34	2.13	7.15	8.45
1989	17.53	29.04	5.40	6.07	2.57	3.14	4.00	2.69	2.50	1.69	3.00	4.92	6.88
1990	5.31	8.61	2.14	3.60	4.39	4.51	2.43	4.17	2.28	2.65	9.41	16.78	5.52
1991	25.55	35.84	36.86	20.91	5.38	4.84	3.07	2.43	2.36	3.79	5.89	3.27	12.52
1992	10.23	101.85	17.38	16.48	16.05	12.87	11.14	4.25	5.08	11.24	6.75	13.70	18.92
1993	34.41	13.56	9.22	4.94	5.91	3.90	4.24	8.51	7.06	4.32	6.27	7.36	9.14
1994													
AVER.	17.33	22.04	21.54	13.48	7.76	5.49	4.90	3.97	3.39	4.29	7.04	10.03	9.37

MONTHLY MAXIMUM DISCHARGE
STATION: 0506 ANGOSTURA
RIVER: RIO PIRAY

DESCARGA MAXIMA MENSUAL

(Unit: m³/s)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976	43.57	33.92	17.36	34.00	17.78	4.75	4.57	3.95	2.88	3.06	8.00	37.33	43.57
1977	45.34	78.72	25.16	69.07	13.68	3.55	3.45	18.67	10.20	2.75	62.20	39.15	78.72
1978	210.44	55.21	9.60	20.50	3.40	6.10	2.10	31.00	19.00	6.00	38.00	160.10	210.44
1979	75.00	247.18	51.20	21.80	22.20	12.50	10.60	6.60	4.60	2.49	129.20	15.00	247.18
1980	51.50	45.00	150.00	41.89	9.33	7.00	4.25	11.16	2.95	3.32	15.00	16.30	150.00
1981	226.00	106.00	147.00	13.30	8.50	5.63	3.66	4.60	4.00	61.40	13.91	140.86	226.00
1982	48.67	198.26	458.42	17.80	12.90	4.16	13.40	2.28	2.64	32.83	39.24	18.05	458.42
1983	248.71	68.46	205.87	186.60	140.20	22.01	35.31	15.25	8.39	46.32	20.53	24.25	248.71
1984	135.26	10.70		88.88	26.06	12.08	9.40	23.46	3.80	11.41	211.17		
1985	186.91		225.10	164.80	47.92	166.27	120.96	20.03	44.03	23.72	42.46	120.34	
1986	482.59	168.19	216.39	295.18	90.25	13.88	135.43	10.58	28.77	19.10	53.94	128.94	482.59
1987	107.34	168.47	39.19	114.95	9.11	17.80	5.60	5.60	55.35	120.72	107.29	200.14	200.14
1988	483.43	243.16	324.86	47.00	29.93	12.43	8.47	3.72	8.56	137.29	28.43	217.97	483.43
1989	220.97	370.95	172.91	154.93	10.61	73.72	28.21	8.49	8.79	7.91	80.93	53.31	370.95
1990	43.45	119.40	6.29	81.71	86.39	54.33	7.81	78.56	29.74	57.97	405.63	350.79	405.63
1991	644.40	307.50	358.58	278.10	7.00	49.59	5.97	4.61	4.85	99.18	99.18	8.56	644.40
1992	237.99	822.51	83.09	266.13	132.09	130.04	127.99	8.30	31.20	346.31	55.20	226.66	822.51
1993	737.38	105.80	208.02	11.99	79.79	12.56	27.65	330.85	93.79	61.40	248.69	116.74	737.38
1994													
AVER.	234.94	185.26	158.77	106.04	41.51	33.80	30.82	32.65	20.20	57.95	92.17	110.26	363.13

Note: Italic value shows the monthly maximum of daily average discharge.

MONTHLY MINIMUM DISCHARGE
 STATION: 0506 ANGOSTURA
 RIVER: RIO PIRAY

DESCARGA MINIMA MENSUAL

(Unit : m³/s)

YEAR	MONTH												ANNUAL MIN.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976	2.78	3.38	1.54	1.29	3.42	2.03	1.90	2.15	1.70	1.20	0.62	0.53	0.53
1977	2.19	1.05	0.32	2.89	3.10	2.10	1.55	1.25	1.80	1.25	1.35	1.70	0.32
1978	2.25	2.55	2.10	1.50	1.20	1.30	1.10	1.06	0.88	0.69	1.03	3.10	0.69
1979	4.00	3.18	6.80	5.40	4.80	3.40	2.60	2.20	1.90	1.10	1.60	1.40	1.10
1980	1.80	3.20	3.80	4.00	3.00	2.08	1.00	1.75	1.11	1.32	1.11	1.32	1.00
1981	1.65	4.20	8.00	5.13	3.50	2.71	2.08	1.58	1.42	1.04	1.66	13.40	1.04
1982	3.24	2.64	16.71	5.22	2.46	1.96	1.96	1.15	1.04	1.92	2.63	2.44	1.04
1983		4.35		8.70	13.56	10.37	9.55	6.79	5.14	4.57	4.74	4.07	
1984	4.46	3.92		7.50	3.78	3.89	2.34	2.42	2.32	2.03	2.37		
1985	3.46		10.15	10.33	8.08	5.14	4.58	4.41	2.23	2.31	1.74	2.13	
1986	5.13	9.59	4.80	5.47	2.61	2.61	0.76	0.66	0.25	1.79	0.20	0.01	0.01
1987	2.89	5.84	1.10	3.44	3.93	3.44	2.19	1.24	0.88	0.58	0.88	1.60	0.58
1988	0.12	0.24	3.35	3.77	2.57	1.28	0.78	2.11	1.16	0.28	0.02	0.75	0.02
1989	2.69	7.35	1.67	1.45	1.07	1.25	1.25	1.71	1.53	0.75	0.76	1.24	0.75
1990	1.02	2.18	1.02	1.21	1.09	2.29	1.18	1.44	1.43	1.28	1.57	1.47	1.02
1991	3.28	6.75	6.23	6.75	4.85	3.40	2.40	2.34	2.31	2.18	2.34	2.40	2.18
1992	2.38	2.92	5.39	5.21	5.45	5.33	5.09	2.44	2.68	3.77	3.23	3.23	2.38
1993	4.20	3.46	4.18	3.84	3.83	3.25	2.90	2.37	1.71	2.36	2.35	2.35	1.71
1994													
AVER.	2.91	3.93	4.82	4.62	4.02	3.21	2.51	2.17	1.75	1.69	1.68	2.54	0.96

Note: Italic value shows the monthly minimum of daily average discharge.

MONTHLY AVERAGE DISCHARGE
 STATION: 0510 LA BELGICA
 RIVER: RIO PIRAY

DESCARGA PROMEDIO MENSUAL

(Unit: m³/s)

YEAR	MONTH												ANNUAL
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976				6.69	6.97	5.55	1.59	2.02	4.09	11.60	6.68	30.68	
1977	90.03	26.41	18.94	22.21	13.16	3.30	3.01	6.73	2.53	0.60	9.69	11.86	17.37
1978	28.68	15.16	6.03	4.12	3.01	4.71	1.37	1.27	1.64	1.06	4.96	24.82	8.07
1979	25.80	36.54	23.64	14.52	18.68	6.66	5.50	1.98	1.89	0.52	6.54	2.26	12.04
1980	6.92	11.81	36.17	22.12	11.98	4.75	2.09	5.12	2.57	0.44	2.40	3.77	9.18
1981	28.83	21.73	57.05	57.42		6.23	2.41	2.03	3.34				
1982													
1983						15.64	29.09	13.78	15.28	17.40	20.02	22.05	
1984	28.51	31.49	30.71	24.84	19.77	22.56	24.91	19.36	22.61	23.26	36.23	66.08	29.19
1985	33.48	61.08	38.30	31.47	43.19	42.80	39.51	18.78	35.68	20.89	16.18	22.50	33.66
1986	28.60	36.84	38.91	38.92	10.38	9.39	10.25	11.03	10.96	8.67	13.53	23.15	20.05
1987	30.73	20.68	11.08	15.76	11.80	10.03	9.66	7.53	3.54	14.87	18.05	53.43	17.26
1988	41.75	21.31	45.45	18.56	29.48	24.18	16.46	6.26	7.68	8.17	3.33	15.00	19.80
1989	35.61	31.11	10.23	14.40	10.97	14.75	7.37	8.65	4.14	2.72	2.98	12.49	12.95
1990	14.37	17.42	5.05	8.21	13.87	21.23	8.09	6.38	5.39	4.05	18.82	33.70	13.05
1991	63.36	47.61	42.02	40.98	20.62	10.01	5.55	4.22	3.70	4.51	10.27	12.38	22.10
1992													
1993													
1994													
AVER.	35.13	29.17	27.97	22.87	16.45	13.45	11.12	7.68	8.34	8.48	12.12	23.87	17.89

MONTHLY MAXIMUM DISCHARGE
 STATION: 0510 LA BELGICA
 RIVER: RIO PIRAY

DESCARGA MAXIMA MENSUAL

(Unit : m³/s)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976				17.70	37.40	13.00	2.80	4.00	17.80	69.18	32.68	221.19	
1977	589.07	101.85	79.65	102.73	37.63	5.93	5.00	75.15	8.95	2.25	64.43	51.57	589.07
1978	310.19	49.91	21.25	22.70	10.50	36.00	3.44	24.00	16.40	11.05	34.40	120.00	310.19
1979	85.00	224.50	54.59	31.50	31.70	16.60	20.30	8.40	5.70	2.36	75.00	33.02	224.50
1980	23.56	105.00	152.69	60.10	47.50	16.00	4.15	19.40	22.00	0.98	23.60	15.30	152.69
1981	157.00	88.00	191.00	370.00		10.05	4.23	8.44	22.02				
1982													
1983						23.78	81.85	19.10	30.39	71.68	52.41	79.07	
1984	139.10	67.85	67.36	66.33	37.29	32.99	51.52	36.18	37.34	42.84	205.72	562.40	562.40
1985	87.80	406.09	88.36	79.57	72.42	204.00	104.93	26.55	83.86	34.31	52.12	41.87	406.09
1986	180.48	195.41	163.27	777.75	14.93	10.90	16.30	13.82	21.58	31.18	164.18	624.09	777.75
1987	807.19	712.61	32.14	37.91	17.02	108.46	73.41	45.30	19.98	251.45	316.33	963.60	963.60
1988	500.67	451.64	668.57	74.10	185.29	78.89	48.10	21.08	18.37	40.49	152.02	458.20	668.57
1989	344.14	349.40	57.81	221.19	62.42	332.70	82.98	78.29	24.27	8.71	40.60	121.86	349.40
1990	158.60	162.26	101.62	87.88	233.79	233.79	50.63	50.63	55.84	53.49	857.10	595.00	857.10
1991	1819.50	576.14	534.68	1217.80	204.47	760.30	26.14	8.64	8.38	59.05	59.05	45.29	1819.50
1992													
1993													
1994													
AVER.	400.18	268.51	170.23	226.23	76.34	125.69	38.39	29.27	26.19	48.50	152.13	280.89	640.07

Note: Italic value shows the monthly maximum of daily average discharge.

MONTHLY MINIMUM DISCHARGE
STATION: 0510 LA BELGICA
RIVER: RIO PIRAY

DESCARGA MINIMA MENSUAL

(Unit: m³/s)

YEAR	MONTH												ANNUAL MIN
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976				3.20	2.00	1.55	1.00	0.50	0.55	1.64	2.09	3.25	
1977	37.73	10.04	11.37	6.61	1.17	1.82	1.29	0.99	1.19	0.06	0.05	2.95	0.03
1978	2.95	3.90	1.70	1.00	0.80	0.50	0.29	0.00	0.06	0.00	0.00	3.40	0.00
1979	6.00	2.26	6.41	8.40	8.40	3.20	2.20	0.50	0.30	0.00	0.00	0.15	0.00
1980	1.15	3.00	8.00	5.40	4.00	2.40	0.75	0.65	0.30	0.00	0.00	0.20	0.00
1981	0.90	5.10	14.00	6.36		3.80	1.36	0.71	0.40				
1982													
1983						7.70	7.99	8.23	8.70	10.24	10.60	9.69	
1984	9.70	10.57	16.77	8.97	9.60	10.78	15.37	10.60	15.20	12.27	9.24	7.99	7.99
1985	10.19	9.76	16.74	9.36	12.92	9.77	6.99	10.85	4.10	11.20	9.41	10.86	4.10
1986	10.97	14.71	16.32	13.31	9.06	5.46	9.06	9.77	6.54	4.25	2.71	4.92	2.71
1987	4.78	2.00	3.31	6.44	7.52	0.84	3.02	1.89	1.66	0.82	1.61	0.72	0.72
1988	8.48	3.10	4.08	1.69	11.20	7.27	0.84	1.69	0.26	1.69	0.02	0.20	0.02
1989	5.73	5.67	1.99	3.03	2.28	0.34	2.86	1.42	1.05	0.59	0.30	1.11	0.30
1990	1.51	1.78	1.67	3.78	1.78	3.56	2.67	2.23	2.01	1.76	0.86	4.33	0.86
1991	6.89	15.40	16.60	16.40	3.33	2.93	3.33	2.28	2.28	1.65	2.28	1.01	1.01
1992													
1993													
1994													
AVER.	8.23	6.71	9.15	6.71	5.70	4.13	3.93	3.49	2.97	3.30	2.80	3.63	1.48

Note: Italic value shows the monthly minimum of daily average discharge.

MONTHLY AVERAGE DISCHARGE
 STATION: 0505 BERMEO
 RIVER: RIO PIRAY

DESCARGA PROMEDIO MENSUAL

(Unit: m³/s)

YEAR	MONTH												ANNUAL AVER.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976		6.90	2.11	2.00	2.63	1.65	1.27	1.08	0.72	0.07	0.36	3.28	
1977	3.83	3.25	3.26	8.55	2.77	1.27	1.22	2.39	1.76	0.92	4.05	3.25	3.04
1978	5.69	4.74	1.50	1.01	1.06	1.32	0.75	1.84	1.61	3.13	6.71	13.17	3.54
1979	6.98	14.97	7.95	5.45	6.10	3.16	2.33	1.26	1.16	0.71	1.22	0.69	4.33
1980	4.26	3.41	8.71	4.28	2.48	1.57	1.09	2.51	1.20	1.11	0.87	1.66	2.76
1981	4.98	11.58	21.26	1.98	2.09	1.41	1.04	0.87	1.75	6.23	0.49	15.59	5.77
1982	5.41	11.19	15.38	3.22	2.71	1.75	2.57	1.25	1.25	4.41	5.97	2.95	4.84
1983				27.67			14.96	6.88	3.57	6.14	5.01	4.50	
1984	9.50	5.15	10.79	9.36	4.09	3.78	2.24	3.17	1.22	1.47	13.70	15.10	6.63
1985	9.88	15.36	9.79	8.15	4.20	6.13	4.58	2.86	4.39	3.30	3.04	4.66	6.36
1986	7.80	8.99	9.92	6.17	2.78	1.25	1.22	0.58	1.67	1.00	1.05	2.77	3.77
1987	2.80	5.61	0.67	4.14	2.63	1.92	0.85	0.35	0.88	2.42	3.30	6.27	2.65
1988	7.98	3.15	10.09	1.28	2.41	1.23	1.00	0.36	0.33	0.90	0.34	2.44	2.63
1989	9.17	7.75	2.25	4.84	2.80	3.27	2.38	1.40	1.56	1.07	1.26	1.77	3.29
1990	2.21	2.39	0.88	1.49	2.37	2.42	1.57	3.62	1.17	0.95	3.34		
1991	13.66	13.20	8.77	8.68	2.47	2.20	1.43	1.05	0.77	2.19	4.29	2.22	5.08
1992	5.97	35.48	4.36	8.35	10.01	9.18	7.82	2.17	2.92	5.46	2.84	5.77	8.36
1993	13.74	4.72	1.87	1.51	3.26	1.23	1.94	6.70	4.03	2.27	3.87	8.51	4.47
1994													
AVER.	7.12	9.28	7.03	6.01	3.34	2.63	2.79	2.24	1.78	2.43	3.43	5.56	4.50

MONTHLY MAXIMUM DISCHARGE: DESCARGA MAXIMA MENSUAL
 STATION: 0505 BERMEJO
 RIVER: RIO PIRAY

(Unit: m³/s)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976		23.24	4.42	17.92	6.71	3.06	2.81	2.27	0.93	0.49	6.95	35.61	
1977	41.62	19.27	24.35	72.56	6.68	2.07	3.39	12.37	7.25	1.59	32.29	21.48	72.56
1978	62.59	15.28	4.51	4.71	5.64	8.84	1.18	24.81	10.56	7.17	32.83	140.33	140.33
1979	56.88	128.47	23.73	16.72	14.60	9.76	8.75	2.20	2.43	1.21	6.36	1.65	128.47
1980	33.80	16.18	42.92	16.51	6.64	4.88	2.42	9.02	1.95	2.23	2.45	7.97	42.92
1981	36.86	183.83	197.70	4.73	6.29	2.88	1.72	4.05	5.48	95.26	1.00	82.28	197.70
1982	21.26	61.44	77.21	7.64	9.71	2.62	17.45	1.73	2.30	18.25	26.05	7.18	77.21
1983				81.24			46.46	16.51	7.63	70.95	18.25	24.95	81.24
1984	65.89	12.86	53.63	34.23	20.45	10.08	9.10	20.01	2.40	6.25	73.60	58.70	73.60
1985	63.47	104.47	57.12	46.32	22.00	84.98	45.24	13.33	11.50	10.74	14.00	25.75	104.47
1986	142.64	54.02	54.02	105.51	34.65	8.36	84.44	3.80	19.01	11.84	33.07	89.92	142.64
1987	39.57	278.18	14.32	79.01	12.49	11.80	3.53	3.74	30.72	89.26	78.25	118.54	278.18
1988	200.41	91.06	287.92	10.72	15.13	4.19	4.19	0.49	1.57	98.27	6.07	79.93	287.92
1989	104.01	113.44	12.84	114.65	14.91	72.34	24.18	11.68	8.21	9.87	62.19	20.00	114.65
1990	6.51	9.80	1.79	13.81	16.19	14.80	14.75	29.91	4.62	3.73	43.72		43.72
1991	525.40	161.95	157.91	253.68	4.33	56.13	3.88	3.88	3.88	73.05	73.05	7.99	525.40
1992	153.16	417.42	19.82	185.13	103.60	95.72	105.92	7.10	20.63	238.61	18.74	91.10	417.42
1993	384.30	89.21	28.38	6.65	91.34	7.53	30.87	318.12	65.29	61.65	114.23	102.48	384.30
1994													
AVR.	121.15	104.71	62.51	59.54	23.02	23.53	22.79	26.95	11.46	44.47	35.73	53.87	183.10

Note: Italic value shows the monthly maximum of daily average discharge.

MONTHLY MINIMUM DISCHARGE
 STATION: 0505 BERMÉJO
 RIVER: RIO PIRAY

DESCARGA MINIMA MENSUAL

(Unit: m)

YEAR	MONTH												ANNUAL MIN.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976		2.56	1.16	0.91	1.20	1.19	0.98	0.60	0.60	0.01	0.01	0.01	
1977	0.69	0.36	0.16	2.27	1.27	1.00	0.80	0.81	0.87	0.80	0.80	1.19	0.16
1978	0.95	1.11	0.79	0.58	0.47	0.70	0.56	0.53	0.93	1.55	3.73	2.43	0.47
1979	1.80	2.85	2.09	2.41	2.32	1.65	1.33	0.97	0.89	0.40	0.48	0.32	0.32
1980	0.35	1.21	1.79	1.00	1.10	1.00	0.80	0.80	0.18	0.70	0.59	0.67	0.18
1981	0.70	1.05	2.19	1.05	1.14	1.05	0.70	0.44	1.05	1.17	0.40	3.73	0.40
1982	2.05	1.84	4.38	2.16	1.63	1.33	1.33	1.33	0.89	0.73	0.97	1.43	0.73
1983				11.76			6.59	3.72	2.28	1.57	2.20	2.04	
1984	2.29	2.06	1.84	3.40	1.95	1.86	1.17	1.16	1.00	0.91	1.23	5.42	0.91
1985	3.95	3.50	3.01	2.55	1.79	1.19	1.29	0.89	0.23	1.71	1.57	1.60	0.23
1986	1.79	1.79	4.69	2.11	0.85	0.64	0.23	0.23	0.03	0.01	0.01	0.11	0.01
1987	0.54	0.54	0.07	0.23	1.18	0.82	0.52	0.11	0.21	0.21	0.52	1.18	0.07
1988	0.13	0.20	0.09	0.17	0.78	0.63	0.49	0.24	0.20	0.17	0.11	0.14	0.09
1989	1.63	1.77	1.12	1.37	1.50	1.63	1.24	1.01	0.71	0.63	0.33	0.54	0.33
1990	0.71	0.83	0.67	0.55	1.11	0.87	0.74	0.63	0.62	0.57	0.67		0.55
1991	1.15	3.66	2.54	3.66	1.42	1.01	1.01	0.69	0.58	0.58	1.01	1.15	0.58
1992	0.87	0.87	0.78	0.61	3.31	2.70	2.39	1.18	0.00	0.97	1.28	1.38	0.00
1993	2.17	1.18	1.03	1.13	1.05	1.03	1.00	0.80	1.23	1.10	0.50	1.16	0.50
1994													
AVLR.	1.36	1.61	1.67	2.11	1.42	1.19	1.29	0.90	0.69	0.77	0.91	1.44	0.35

Note: Italic value shows the monthly minimum of daily average discharge.

MONTHLY AVERAGE DISCHARGE
 STATION: 0504 COLORADO
 RIVER: RIO PIRAY

DESCARGA PROMEDIO MENSUAL

(Unit: m³/s)

YEAR	MONTH												ANNUAL AVER.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981										2.95	1.68	6.32	
1982	1.56	3.60	6.73	1.53	1.38	0.97	1.35	0.75	0.75	3.06	3.94	1.29	2.24
1983				8.30	5.29	1.70	5.68	1.46	1.34	2.62	2.49	2.25	
1984	2.86	0.88	4.26	6.79	3.49	2.99	1.62	4.52	2.14	1.62	6.43		
1985	3.07	4.44	2.64	2.33	0.52	1.75	3.69	2.14	2.21	2.59	3.04	3.74	2.68
1986	3.73	3.85	3.56	2.02	1.68	0.89	1.23	0.76	1.16	0.80	0.79	2.49	1.91
1987	0.95	1.47	0.91	1.71	1.14	0.57	0.60	0.37	0.51	0.68	1.38	1.50	0.98
1988	2.23	1.68	2.53	0.96	1.05	0.52	0.33	0.15	0.15	0.28	0.66	1.75	1.02
1989	2.31	1.79	0.65	2.09	1.73	1.72	0.82	0.59	0.81	0.70	0.70	0.47	1.20
1990	0.58	0.57	0.27	0.64	1.53	1.51	0.42	0.67	0.39	0.28	1.30	2.58	0.90
1991					0.65		0.50	0.52	0.48	1.18	1.45	0.96	
1992			1.84					0.69			0.64		
1993			0.73	0.81		0.53	0.96		1.88				
1994													
AVER.	2.16	2.29	2.41	2.72	1.85	1.32	1.56	1.15	1.07	1.52	2.04	2.34	1.56

MONTHLY MAXIMUM DISCHARGE
 STATION: 0504 COLORADO
 RIVER: RIO PIRAY

DESCARGA MAXIMA MENSUAL

(Unit: m³/s)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982	6.32	16.11	41.22	4.97	4.97	2.35	12.78	0.98	1.24	23.81	31.67	3.77	41.22
1983				42.87	54.22	4.06	15.69	5.74	5.25	22.22	9.08	7.54	
1984	27.00	1.69	25.27	22.54	9.45	6.44	4.62	9.58	3.56	3.09	29.59		
1985	1.38	1.96	1.53	1.23	0.78	1.62	1.45	0.56	0.64	0.46	0.72	1.10	1.96
1986	104.30	79.70	60.70	66.30	23.20	11.30	173.40	1.10	16.80	4.40	20.80	79.30	173.40
1987	6.94	28.87	4.82	53.98	4.20	3.62	1.21	3.25	13.81	6.07	26.88	35.39	53.98
1988	59.36	9.46	23.50	2.01	5.27	1.29	1.40	0.24	1.01	21.46	3.29	23.91	59.36
1989	11.85	14.83	4.27	45.00	12.11	59.56	7.85	11.18	4.37	15.63	9.27	8.30	59.56
1990	6.85	6.07	0.49	30.71	40.60	18.81	1.98	15.64	9.91	2.76	50.82	54.38	54.38
1991	30.60	25.61	26.40	33.92	1.70	26.40	1.85	2.01	1.54	37.37	22.24	7.07	37.37
1992	24.42	26.12	6.78	23.14	25.69	23.99	25.69	3.77	7.92	24.84	3.29	25.69	26.12
1993	26.12	21.89	22.29	3.62	25.27	4.04	11.13	25.27	17.76	23.14	21.50	26.12	26.12
1994													
AVER.	27.74	21.12	19.75	27.52	17.29	13.62	21.59	6.61	6.98	16.69	18.28	28.02	53.35

Note: Italic value shows the monthly maximum of daily average discharge.

MONTHLY MINIMUM DISCHARGE
 STATION: 0504 COLORADO
 RIVER: RIO PIRAY

DESCARGA MINIMA MENSUAL

(Unit: m³/s)

YEAR	MONTH												ANNUAL MIN
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982	<i>0.87</i>	<i>0.65</i>	<i>1.38</i>	<i>0.75</i>	<i>0.65</i>	<i>0.75</i>	<i>0.65</i>	<i>0.55</i>	<i>0.55</i>	<i>0.38</i>	<i>0.75</i>	<i>0.46</i>	0.38
1983				<i>1.02</i>	<i>0.83</i>	<i>0.79</i>	<i>1.28</i>	<i>0.43</i>	<i>0.21</i>	<i>0.17</i>	<i>0.50</i>	<i>0.27</i>	
1984	<i>0.28</i>	<i>0.44</i>	<i>0.40</i>	<i>3.64</i>	<i>1.39</i>	<i>1.40</i>	<i>0.50</i>	<i>0.49</i>	<i>1.10</i>	<i>0.72</i>	<i>0.41</i>		
1985	<i>0.41</i>	<i>0.58</i>	<i>0.45</i>	<i>0.24</i>	<i>0.21</i>	<i>0.09</i>	<i>2.03</i>	<i>1.39</i>	<i>1.13</i>	<i>2.03</i>	<i>2.12</i>	<i>2.22</i>	0.09
1986	<i>0.60</i>	<i>1.10</i>	<i>1.50</i>	<i>0.60</i>	<i>0.30</i>	<i>0.70</i>	<i>0.47</i>	<i>0.30</i>	<i>0.30</i>	<i>0.20</i>	<i>0.10</i>	<i>0.11</i>	0.10
1987	<i>0.23</i>	<i>0.16</i>	<i>0.30</i>	<i>0.10</i>	<i>0.62</i>	<i>0.27</i>	<i>0.40</i>	<i>0.22</i>	<i>0.13</i>	<i>0.05</i>	<i>0.13</i>	<i>0.08</i>	0.05
1988	<i>0.17</i>	<i>0.22</i>	<i>0.52</i>	<i>0.21</i>	<i>0.50</i>	<i>0.18</i>	<i>0.09</i>	<i>0.13</i>	<i>0.05</i>	<i>0.09</i>	<i>0.24</i>	<i>0.13</i>	0.05
1989	<i>1.06</i>	<i>0.47</i>	<i>0.30</i>	<i>0.44</i>	<i>0.54</i>	<i>0.37</i>	<i>0.30</i>	<i>0.24</i>	<i>0.14</i>	<i>0.09</i>	<i>0.09</i>	<i>0.04</i>	0.04
1990	<i>0.25</i>	<i>0.29</i>	<i>0.25</i>	<i>0.25</i>	<i>0.20</i>	<i>0.26</i>	<i>0.23</i>	<i>0.23</i>	<i>0.23</i>	<i>0.20</i>	<i>0.20</i>	<i>0.27</i>	0.20
1991	<i>0.26</i>	<i>0.07</i>	<i>0.74</i>	<i>0.85</i>	<i>0.49</i>	<i>0.47</i>	<i>0.45</i>	<i>0.47</i>	<i>0.43</i>	<i>0.05</i>	<i>0.19</i>	<i>0.41</i>	0.05
1992	<i>0.19</i>	<i>0.73</i>	<i>0.48</i>	<i>0.48</i>	<i>1.10</i>	<i>0.99</i>		<i>0.50</i>	<i>0.42</i>	<i>0.25</i>	<i>0.24</i>	<i>0.24</i>	
1993	<i>1.14</i>	<i>0.22</i>	<i>0.17</i>	<i>0.44</i>	<i>0.33</i>	<i>0.33</i>	<i>0.39</i>	<i>0.69</i>	<i>0.55</i>	<i>0.39</i>	<i>0.39</i>	<i>0.55</i>	0.17
1994													
AVER.	0.50	0.45	0.59	0.75	0.60	0.55	0.62	0.47	0.44	0.38	0.45	0.53	0.13

Note: Italic value shows the monthly minimum of daily average discharge.

MONTHLY AVERAGE DISCHARGE
 STATION: 0512 EISENHOWER
 RIVER: RIO PIRAY

DESCARGA PROMEDIO MENSUAL

(Unit : m³/s)

YEAR	MONTH												ANNUAL AVER.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977			10.81	15.85	12.36	2.54	2.17	7.91	4.01	0.65	13.24	27.45	
1978	39.49	6.84	4.62	3.21	2.89	6.20	2.24	0.69	3.02	2.64	10.44	21.63	8.66
1979	48.79	93.12	6.43	5.51	11.94	1.86	1.25	0.23	0.56	0.86	3.84	1.19	14.63
1980	8.70	13.14	20.18	26.23	44.70	5.39	1.19	2.51	10.17	0.59	9.79	2.44	12.09
1981	27.52	17.11	49.33			10.01	1.69		5.48				
1982													
1983													
1984													
1985													
1986			29.84		23.85	10.88	8.70	9.64	9.43	7.64	4.58	29.49	
1987			12.68		8.89				3.45	6.50	6.44		
1988		9.98			5.65	2.72	3.02		1.91	3.28	2.08		2.39
1989	81.78	75.55	31.61	22.83	22.73	58.85	17.14	64.13	10.55	7.92	10.57	58.79	38.54
1990	42.15	56.58		19.21	65.41	72.07	20.13				28.96	39.21	
1991	135.94	83.10	79.86	52.33	48.42	23.31	13.60	6.01	4.92	11.82	24.05	63.31	45.47
1992													
1993													
1994													
AVER.	54.91	44.43	27.26	20.74	24.68	19.28	7.11	13.02	5.35	4.66	11.40	30.44	20.30

MONTHLY MAXIMUM DISCHARGE
 STATION: 0512 EISENHOWER
 RIVER: RIO PIRAY

DESCARGA MAXIMA MENSUAL

(Unit : m³/s)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977			<i>122.51</i>	<i>49.50</i>	<i>70.00</i>	<i>4.90</i>	<i>4.10</i>	<i>49.80</i>	<i>11.85</i>	<i>2.80</i>	<i>135.69</i>	<i>250.57</i>	
1978	<i>390.44</i>	<i>26.38</i>	<i>54.63</i>	<i>20.50</i>	<i>14.50</i>	<i>40.00</i>	<i>10.20</i>	<i>9.50</i>	<i>34.50</i>	<i>26.00</i>	<i>144.90</i>	<i>215.50</i>	390.44
1979	<i>214.79</i>	<i>884.03</i>	<i>20.40</i>	<i>34.00</i>	<i>153.59</i>	<i>2.90</i>	<i>2.60</i>	<i>0.81</i>	<i>4.90</i>	<i>8.50</i>	<i>70.00</i>	<i>6.54</i>	884.03
1980	<i>48.00</i>	<i>90.00</i>	<i>75.00</i>	<i>152.00</i>	<i>386.00</i>	<i>28.50</i>	<i>1.90</i>	<i>15.50</i>	<i>143.00</i>	<i>2.14</i>	<i>79.00</i>	<i>12.90</i>	386.00
1981	<i>200.00</i>	<i>86.00</i>	<i>444.00</i>			<i>92.00</i>	<i>3.65</i>		<i>88.00</i>				444.00
1982													
1983													
1984													
1985													
1986	<i>266.42</i>	<i>424.13</i>	<i>167.09</i>	<i>591.41</i>	<i>447.10</i>	<i>61.66</i>	<i>65.07</i>	<i>65.07</i>	<i>84.05</i>	<i>45.06</i>	<i>49.24</i>	<i>514.57</i>	591.41
1987	<i>193.81</i>	<i>106.26</i>	<i>142.79</i>	<i>566.18</i>	<i>41.36</i>	<i>234.35</i>	<i>106.41</i>	<i>104.76</i>	<i>9.04</i>	<i>45.75</i>	<i>85.71</i>	<i>111.41</i>	566.18
1988	<i>639.20</i>	<i>51.50</i>	<i>114.91</i>	<i>135.33</i>	<i>18.94</i>	<i>6.25</i>	<i>8.73</i>	<i>1.65</i>	<i>8.07</i>	<i>18.67</i>	<i>31.68</i>	<i>769.75</i>	769.75
1989	<i>1388.80</i>	<i>1128.10</i>	<i>982.26</i>	<i>816.19</i>	<i>200.90</i>	<i>1410.10</i>	<i>215.85</i>	<i>1635.80</i>	<i>39.00</i>	<i>33.35</i>	<i>873.98</i>	<i>1483.00</i>	1635.80
1990	<i>230.98</i>	<i>249.04</i>		<i>112.97</i>	<i>367.35</i>	<i>566.88</i>	<i>125.40</i>				<i>509.42</i>	<i>387.00</i>	
1991	<i>2092.70</i>	<i>705.64</i>	<i>1050.70</i>	<i>898.43</i>	<i>1856.70</i>	<i>548.39</i>	<i>266.99</i>	<i>18.18</i>	<i>20.04</i>	<i>176.70</i>	<i>381.22</i>	<i>1042.00</i>	2092.70
1992													
1993													
1994													
AVER.	<i>566.51</i>	<i>375.11</i>	<i>317.43</i>	<i>337.65</i>	<i>355.64</i>	<i>272.36</i>	<i>73.72</i>	<i>211.23</i>	<i>44.25</i>	<i>39.89</i>	<i>236.08</i>	<i>479.32</i>	862.26

Note: Italic value shows the monthly maximum of daily discharge.

MONTHLY MINIMUM DISCHARGE
 STATION: 0512 EISENHOWER
 RIVER: RIO PIRAY

DESCARGA MINIMA MENSUAL

(Unit: m³/s)

YEAR	MONTH												ANNUAL MIN
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976			0.35	5.40	3.05	1.55	1.25	1.05	1.35	0.05	0.20	3.93	0.05
1977	3.60	2.90	1.15	0.90	0.70	0.80	0.40	0.01	0.26	0.05	0.40	2.80	0.01
1978	3.10	5.00	2.25	1.80	2.80	0.90	0.40	0.00	0.00	0.00	0.01	0.02	0.00
1979	0.00	1.30	2.70	2.10	4.50	2.10	0.80	0.20	0.08	0.10	0.00	0.20	0.00
1980	0.20	3.40	3.40			2.70	0.96		0.39				0.20
1981													
1982													
1983													
1984													
1985													
1986	1.98	1.73	6.35	0.59	1.79	6.90	3.54	2.29	3.30	2.29	1.38	2.47	0.59
1987	3.08		1.71	4.77	3.34	3.05	0.43	1.99	1.26	0.08	0.08	0.23	
1988	2.46	2.87	2.50	5.70	1.39	1.39	1.15	0.13	0.07	0.07	0.09	0.15	0.07
1989	5.31	9.91	1.05	3.81	9.38	8.33	8.19	10.08	7.25	5.56	3.08	3.93	1.05
1990	1.92	11.02		6.00	10.64	6.36	5.12				1.78	3.81	
1991	7.81	23.53	6.50	13.90	11.07	5.15	4.56	2.50	0.54	2.01	4.46	14.80	0.54
1992													
1993													
1994													
AVER.	2.95	6.85	2.80	4.50	4.87	3.37	2.44	2.03	1.45	1.13	1.15	3.24	0.28

Note: Italic value shows the monthly minimum of daily average discharge.

MONTHLY AVERAGE DISCHARGE
STATION: 0520 ESPEJOS
RIVER: RIO PIRAY

DESCARGA PROMEDIO MENSUAL

(Unit : m³/s)

YEAR	MONTH												ANNUAL AVER.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976												11.48	
1977	7.94	3.99	4.55	3.35	2.11	1.21	1.31	0.92	0.66	0.28	2.57	1.83	2.56
1978	12.64	2.23	0.73	0.63	1.18	1.38	0.83	0.67	0.74	1.02	1.16	3.71	2.24
1979	5.27	7.48	3.87	4.69	8.41	2.51	1.83	1.02	0.97	3.49	3.42	3.24	3.85
1980	3.44	2.86	6.58	3.47	1.30	1.07	0.89	1.04	0.72	0.75	0.65	0.81	1.97
1981	1.46	2.87	2.75		4.36	2.20	1.05	0.76	1.88				
1982	2.77	10.13	12.11	3.33	5.64	2.64	2.75	1.61	2.11			4.21	
1983		7.62	12.19	3.59	11.86	8.12	16.56	3.70	2.90	3.91			
1984	15.00	3.80	4.57	5.37	2.97	3.32	4.51	1.98	1.66	1.55	8.29	14.38	5.62
1985	5.67	5.67	7.83	7.49	4.26	3.54	3.25	1.92	1.88	0.91	1.06	1.55	3.75
1986	2.50	7.52	2.67		2.33	1.52	1.66	1.25	2.73	2.09	2.24	3.22	
1987	1.85	1.78	0.53	1.54	1.23	1.78	0.68	0.65	0.49	1.96	5.62	9.48	2.30
1988	9.34	2.24	10.38	2.01	1.90	1.03	0.65	0.18	0.36	0.65	0.69	3.48	2.74
1989	5.89	4.06	0.77	5.89	5.37	4.84	2.32	1.10	1.04	0.60	0.39	1.25	2.79
1990	1.80	1.75	0.64	2.21	4.24	3.90	0.76	0.99	1.01	0.90	1.90	3.08	1.93
1991	8.61	8.46	4.38	4.33	2.15	4.81	1.25	0.87	0.64	1.04	1.77	1.82	3.34
1992	4.75	19.92	5.31	12.44	13.99	5.76	4.94	2.10	2.44	2.93	1.24	5.34	6.76
1993	5.66		1.25	2.17	2.80	1.09	1.80	2.44	1.66	1.54	3.75	6.20	2.53
1994													
AVER.	5.91	5.77	4.77	4.17	4.48	2.98	2.77	1.36	1.41	1.57	2.48	4.69	3.26

MONTHLY MAXIMUM DISCHARGE
STATION: 0520 ESPEJOS
RIVER: RIO PIRAY

DESCARGA MAXIMA MENSUAL

(Unit: m³/s)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976												56.57	
1977	144.11	15.65	20.30	35.00	4.96	2.68	8.68	4.36	0.87	0.52	22.40	15.21	
1978	266.00	15.50	2.48	1.80	13.00	18.00	1.20	3.80	6.67	2.97	1.96	62.24	266.00
1979	21.92	85.73	10.84	27.51	25.33	5.85	4.70	3.35	3.20	3.96	4.96	6.22	85.73
1980	7.17	29.32	48.15	41.98	3.12	1.67	1.19	5.27	1.87	1.12	2.30	2.78	48.15
1981	4.74	25.17	29.60		33.00	3.95	1.78	1.62	32.00				33.00
1982	14.47	75.72	53.82	9.38	60.44	6.34	13.57	6.34	22.19			12.83	
1983		42.19	50.82	16.40	61.53	14.64	61.27	8.59	5.41	52.25			
1984	234.61	8.80	54.90	32.01	3.63	4.76	26.69	5.59	6.65	7.35	46.13	109.70	
1985	67.58	45.21	58.96	29.11	22.16	23.08	20.38	3.61	5.55	1.94	4.69	8.65	67.58
1986	173.38	145.00	20.71	61.74	69.31	11.25	6.37	2.64	20.04	13.32	19.10	76.15	173.38
1987	8.72	47.91	11.63	17.33	4.73	11.15	4.73	9.34	8.91	78.98	116.69	250.39	250.39
1988	332.34	11.93	267.14	9.43	8.31	2.87	3.53	0.67	1.94	50.69	6.41	331.50	332.34
1989	151.18	160.84	3.83	630.40	115.70	200.68	46.13	16.52	7.90	7.90	1.45	32.07	630.40
1990	89.01	29.06	3.75	234.24	208.61	74.79	2.54	12.62	22.52	13.72	75.43	179.21	234.24
1991	638.66	106.66	48.77	136.35	5.03	280.21	4.16	2.91	1.64	27.15	21.39	41.76	638.66
1992	47.06	105.81	34.18	149.23	90.89	19.74	30.80	3.47	9.76	40.08	3.52	104.13	149.23
1993	213.55	379.54	8.29	125.66	132.18	10.66	25.19	101.45	17.11	64.24	153.03	394.63	394.63
1994													
AVER.	150.91	78.24	42.83	97.35	50.70	40.72	15.47	11.30	10.25	24.41	34.25	105.25	254.13

Note: Italic value shows the monthly maximum of daily average discharge.

MONTHLY MINIMUM DISCHARGE
 STATION: 0520 ESPEJOS
 RIVER: RIO PIRAY

DESCARGA MINIMA MENSUAL

(Unit: m³/s)

YEAR	MONTH												ANNUAL MIN.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976												6.14	
1977	1.50	2.23	3.03	0.77	1.06	0.53	0.38	0.39	0.30	0.14	0.14	0.63	0.14
1978	0.36	0.74	0.22	0.36	0.34	0.40	0.50	0.37	0.19	0.85	0.85	0.50	0.19
1979	2.21	2.18	1.90	2.14	2.71	1.00	1.00	0.65	0.56	3.20	3.00	2.00	0.56
1980	2.60	0.50	1.56	0.10	0.71	0.78	0.06	0.64	0.57	0.57	0.50	0.50	0.06
1981	0.71	1.15	0.78		1.35	1.39	0.60	0.42	0.30				
1982	2.13	1.86	3.58	1.93	1.56	1.93	1.56	0.95	0.83			2.65	
1983		4.29	4.84	0.32	3.45	4.21	6.87	1.82	1.82	1.49			
1984	0.47	2.31	1.47	0.52	0.35	2.50	1.65	1.39	1.13	0.61	1.00	5.34	0.35
1985	0.33	2.81	2.81	3.83	2.77	1.94	1.94	1.33	1.33	0.35	0.35	0.54	0.33
1986	0.19	0.43	1.07	0.03	0.76	1.00	1.13	1.00	0.87	1.13	0.87	1.00	0.03
1987	1.08	0.60	0.14	0.23	0.60	0.60	0.14	0.23	0.07	0.07	0.34	0.06	0.06
1988	1.29	1.00	0.87	1.31	0.98	0.39	0.15	0.15	0.15	0.13	0.20	0.16	0.13
1989	0.92	0.61	0.26	0.06	2.12	1.18	0.92	0.49	0.59	0.32	0.32	0.32	0.06
1990	0.55	0.74	0.48	0.55	0.71	0.71	0.63	0.63	0.63	0.63	0.57	0.52	0.48
1991	0.46	2.45	1.76	1.42	1.39	1.14	0.89	0.64	0.52	0.42	0.70	0.77	0.42
1992	0.53	0.72	1.59	1.67	2.16	2.82	2.26	0.72	1.27	1.21	0.85	0.91	0.53
1993	2.41	1.22	0.96	0.96	0.87	0.85	1.02	0.82	0.78	0.82	0.78	0.80	0.78
1994													
AVER.	1.11	1.52	1.61	1.01	1.41	1.37	1.28	0.74	0.70	0.80	0.75	1.43	0.29

Note: Italic value shows the monthly minimum of daily average discharge.

9. Nivel de Agua y Caudal en el Rio Grande

MONTHLY AVERAGE WATER LEVEL
 STATION: 0401 PUENTE ABAPO
 RIVER: RIO GRANDE

NIVEL DE AGUA PROMEDIO MENSUAL

(Unit : m)

YEAR	MONTH												ANNUAL AVER.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971									29.77	29.89	30.19	30.66	
1972	30.98	31.38	31.30	30.84	30.30	30.17	29.95	30.00	29.99	29.86	30.23	30.95	30.50
1973	31.48	31.65	31.60	31.06	30.72	30.61	30.20	30.15	30.00	30.14	30.60	30.66	30.74
1974	32.01	32.86	31.88										
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992													
1993													
1994													
AVER.	31.49	31.96	31.59	30.95	30.51	30.39	30.08	30.08	29.92	29.96	30.34	30.76	30.62

MONTHLY MAXIMUM WATER LEVEL NIVEL DE AGUA MAXIMO MENSUAL
 STATION: 0401 PUENTE ABAPO
 RIVER: RIO GRANDE

(Unit: m)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971									30.06	30.69	30.77	31.37	
1972	31.88	32.27	31.97	31.55	30.62	30.72	30.07	30.82	30.19	30.63	30.84	32.00	32.27
1973	32.26	32.45	32.19	31.48	31.54	31.35	30.25	30.29	30.05	30.92	31.45	32.58	32.58
1974	34.77	34.70	32.72										
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992													
1993													
1994													
AVR.	32.97	33.14	32.29	31.52	31.08	31.04	30.16	30.56	30.11	30.75	31.02	31.98	32.43

Note: Italic value shows the monthly maximum of daily average water level.

MONTHLY MINIMUM WATER LEVEL NIVEL DE AGUA MINIMO MENSUAL
 STATION: 0401 PUENTE ABAPO
 RIVER: RIO GRANDE

(Unit: m)

YEAR	MONTH												ANNUAL MIN
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971									<i>29.64</i>	<i>29.69</i>	<i>29.78</i>	<i>30.12</i>	
1972	<i>30.15</i>	<i>30.65</i>	<i>30.84</i>	<i>30.37</i>	<i>30.17</i>	<i>30.08</i>	<i>29.88</i>	<i>29.85</i>	<i>29.90</i>	<i>29.71</i>	<i>29.90</i>	<i>29.94</i>	29.71
1973	<i>30.82</i>	<i>31.22</i>	<i>31.15</i>	<i>30.74</i>	<i>30.39</i>	<i>30.31</i>	<i>30.10</i>	<i>30.07</i>	<i>29.94</i>	<i>29.95</i>	<i>29.97</i>	<i>29.99</i>	29.94
1974	<i>31.01</i>	<i>32.00</i>	<i>30.90</i>										
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992													
1993													
1994													
AVER.	30.66	31.29	30.96	30.56	30.28	30.20	29.99	29.96	29.83	29.78	29.88	30.02	29.83

Note: Italic value shows the monthly minimum of daily average water level.

MONTHLY MINIMUM WATER LEVEL NIVEL DE AGUA MINIMO MENSUAL
 STATION: 0102 PUERTO PAILAS
 RIVER: RIO GRANDE

(Unit: m)

YEAR	MONTH												ANNUAL MIN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971										<i>3.21</i>	<i>3.26</i>	<i>3.45</i>	
1972	<i>3.39</i>	<i>3.20</i>	<i>3.48</i>	<i>3.37</i>	<i>3.24</i>	<i>3.22</i>	<i>3.16</i>	<i>3.17</i>	<i>3.21</i>	<i>2.76</i>	<i>3.28</i>	<i>3.24</i>	2.76
1973	<i>3.55</i>	<i>3.38</i>	<i>3.19</i>	<i>3.48</i>	<i>3.50</i>	<i>3.38</i>	<i>3.40</i>	<i>3.39</i>	<i>3.28</i>	<i>3.31</i>	<i>3.46</i>	<i>3.39</i>	3.19
1974	<i>3.69</i>	<i>3.27</i>											
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992													
1993													
1994													
AVER.	<i>3.54</i>	<i>3.28</i>	<i>3.34</i>	<i>3.43</i>	<i>3.37</i>	<i>3.30</i>	<i>3.28</i>	<i>3.28</i>	<i>3.25</i>	<i>3.09</i>	<i>3.33</i>	<i>3.36</i>	2.98

Note: *Italic value shows the monthly minimum of daily average water level.*

MONTHLY MAXIMUM WATER LEVEL
 STATION : 0402 PUERTO PAILAS
 RIVER : RIO GRANDE

NIVEL DE AGUA MAXIMO MENSUAL

(Unit : m)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971										3.68	3.88	4.13	
1972	4.12	3.87	4.07	4.08	3.47	3.64	3.31	3.70	3.42	3.63	3.75	4.29	4.29
1973	4.24	4.04	3.93	3.70	3.88	4.00	3.53	3.52	3.45	3.75	4.01	4.21	4.24
1974	5.06	4.91											
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992													
1993													
1994													
AVER.	4.47	4.27	4.00	3.89	3.68	3.82	3.42	3.61	3.44	3.69	3.87	4.21	4.27

Note: Italic value shows the monthly maximum of daily average water level.

MONTHLY AVERAGE WATER LEVEL
 STATION: 0402 PUERTO PAILAS
 RIVER: RIO GRANDE

NIVEL DE AGUA PROMEDIO MENSUAL

(Unit : m)

YEAR	MONTH												ANNUAL AVER
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971										3.34	3.54	3.82	
1972	3.75	3.56	3.78	3.71	3.36	3.35	3.24	3.27	3.28	3.13	3.47	3.61	3.46
1973	3.83	3.74	3.56	3.60	3.64	3.62	3.46	3.44	3.38	3.52	3.64	3.70	3.59
1974	4.11	4.33											
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992													
1993													
1994													
AVER.	3.90	3.88	3.67	3.66	3.50	3.49	3.35	3.36	3.33	3.33	3.55	3.71	3.53

MONTHLY AVERAGE DISCHARGE DESCARGA PROMEDIO MENSUAL
 STATION: 0401 PUENTE ABAFO
 RIVER: RIO GRANDE

(Unit : m³/s)

YEAR	MONTH												ANNUAL AVER
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964	154.64	571.02	834.39	242.80	140.24	81.55	53.48	44.20	41.83	53.36	100.57	330.26	220.70
1965													
1966													
1967													
1968													
1969													
1970													
1971									30.66	63.45	135.32	418.00	
1972	518.23	718.14	605.94	257.43	75.68	63.53	39.83	57.29	44.26	33.29	97.69	424.08	244.62
1973	660.16	422.68	470.00	198.77	135.04	140.65	57.55	50.44	29.17	55.48	188.35	335.15	228.62
1974	1390.97	2105.54	1089.58										
1975		964.63	740.04	516.75	69.15	57.32	51.03	45.82	45.23	39.89	54.16	363.71	
1976	855.10	1021.60	450.73	167.21	133.82	54.30	59.77	64.42	130.21	73.15	62.69	96.55	
1977	230.85	342.49	212.61	210.69	201.02	84.97	58.44	51.86	58.75	74.72	178.40	285.15	165.83
1978	657.27	1042.75	416.58	305.63	141.29	79.89	45.26	25.96	35.31	33.91	159.07	351.97	274.57
1979	988.70	833.12	671.19	451.44	221.37	117.36	92.07	58.85	46.03	82.96	93.42	259.94	326.37
1980	431.79	291.23	458.45	256.00	116.47	51.44	56.88	56.70	59.99	63.90	57.72	180.30	173.41
1981	536.01	1227.93	1077.61	352.40	189.44	115.85	84.39	73.92	82.75				
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992													
1993													
1994													
AVER.	642.37	867.38	638.83	295.91	142.35	84.69	59.87	52.95	54.93	57.41	112.74	304.51	233.44

MONTHLY MAXIMUM DISCHARGE
 STATION: 0401 PUENTE ABAPO
 RIVER: RIO GRANDE

DESCARGA MAXIMA MENSUAL

(Unit : m³/s)

YEAR	MONTH												ANNUAL MAX
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1960													
1961													
1962													
1963													
1964	<i>405.83</i>	<i>1945.00</i>	<i>2752.00</i>	<i>493.33</i>	<i>254.50</i>	<i>123.16</i>	<i>63.50</i>	<i>65.17</i>	<i>55.33</i>	<i>71.67</i>	<i>177.00</i>	<i>961.67</i>	2752.00
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972	<i>1284.00</i>	<i>1920.00</i>	<i>1500.00</i>	<i>664.00</i>	<i>120.00</i>	<i>150.00</i>	<i>50.20</i>	<i>340.00</i>	<i>63.50</i>	<i>172.00</i>	<i>282.00</i>	<i>1380.00</i>	1920.00
1973	<i>2100.00</i>	<i>785.00</i>	<i>1090.00</i>	<i>365.00</i>	<i>303.00</i>	<i>500.00</i>	<i>72.50</i>	<i>73.20</i>	<i>38.10</i>	<i>200.00</i>	<i>465.00</i>	<i>1750.00</i>	2100.00
1974	<i>4050.00</i>	<i>4320.00</i>	<i>1930.00</i>										
1975		<i>1464.48</i>	<i>1052.06</i>	<i>796.67</i>	<i>72.94</i>	<i>65.12</i>	<i>56.29</i>	<i>52.45</i>	<i>73.57</i>	<i>55.12</i>	<i>75.35</i>	<i>565.76</i>	
1976	<i>1076.51</i>	<i>2742.29</i>	<i>732.29</i>	<i>236.05</i>	<i>250.50</i>	<i>83.60</i>	<i>66.23</i>	<i>119.70</i>	<i>346.51</i>	<i>117.59</i>	<i>145.65</i>	<i>301.26</i>	2742.29
1977	<i>580.21</i>	<i>703.40</i>	<i>494.83</i>	<i>542.53</i>	<i>269.04</i>	<i>116.96</i>	<i>81.12</i>	<i>110.66</i>	<i>224.89</i>	<i>202.87</i>	<i>328.59</i>	<i>560.72</i>	703.40
1978	<i>1068.32</i>	<i>2147.00</i>	<i>640.42</i>	<i>546.40</i>	<i>220.42</i>	<i>101.21</i>	<i>62.10</i>	<i>33.44</i>	<i>69.45</i>	<i>78.61</i>	<i>344.66</i>	<i>941.48</i>	2147.00
1979	<i>5693.24</i>	<i>2431.72</i>	<i>1495.63</i>	<i>745.68</i>	<i>277.87</i>	<i>138.08</i>	<i>126.58</i>	<i>77.98</i>	<i>52.01</i>	<i>193.92</i>	<i>188.48</i>	<i>635.82</i>	5693.24
1980	<i>892.71</i>	<i>455.22</i>	<i>630.25</i>	<i>418.88</i>	<i>183.45</i>	<i>69.75</i>	<i>65.72</i>	<i>107.21</i>	<i>101.71</i>	<i>131.27</i>	<i>109.94</i>	<i>358.93</i>	892.71
1981	<i>998.72</i>	<i>2133.23</i>	<i>1835.23</i>	<i>495.56</i>	<i>244.22</i>	<i>129.39</i>	<i>99.97</i>	<i>170.77</i>	<i>244.22</i>				
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992													
1993													
1994													
AVER.	1814.95	1915.21	1285.70	530.41	219.59	147.73	74.42	115.06	120.67	150.81	249.47	851.66	2368.83

Note: Italic value shows the monthly maximum of daily average discharge.

MONTHLY MINIMUM DISCHARGE DESCARGA MINIMA MENSUAL
 STATION: 0401 PUENTE ABAPO
 RIVER: RIO GRANDE

(Unit: m³/s)

YEAR	MONTH												ANNUAL MIN
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964	36.50	114.83	170.83	136.83	100.17	68.50	47.00	35.00	35.50	41.00	53.50	90.00	35.50
1965													
1966													
1967													
1968													
1969													
1970													
1971									19.60	24.90	37.50	97.00	
1972	98.10	118.00	215.00	102.00	34.90	48.40	32.80	25.40	32.40	17.50	39.60	36.40	17.50
1973	235.00	195.00	200.00	113.00	82.00	70.50	43.40	36.90	20.50	26.70	37.00	46.00	20.50
1974	505.00	975.00	330.00										
1975		668.84	564.75	392.42	66.38	49.14	44.68	39.72	29.68	29.68	29.68	137.85	
1976	334.73	555.29	240.34	107.02	75.23	14.87	52.44	52.44	84.13	32.26	34.79	39.50	14.87
1977	106.34	138.73	52.85	47.89	141.27	65.28	41.80	27.97	24.22	15.32	24.22	124.40	15.32
1978	425.70	484.90	273.42	153.33	86.12	52.93	33.44	17.79	29.21	20.13	40.13	101.50	17.79
1979	498.50	397.03	379.10	187.89	145.30	96.61	71.12	42.12	36.34	34.86	31.95	55.33	31.95
1980	246.85	191.18	296.60	149.48	69.75	36.51	40.39	40.39	25.27	28.27	12.81	74.96	12.81
1981	78.19	641.21	641.21	222.46	132.45	105.68	70.34	53.17	48.53				
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992													
1993													
1994													
AVER.	256.49	407.27	308.55	161.23	95.36	60.84	47.74	37.39	35.31	27.06	34.12	80.19	20.78

Note: Italic value shows the monthly minimum of daily average discharge.

MONTHLY AVERAGE DISCHARGE:
 STATION: 0402 PUERO PAILLAS
 RIVER: RIO GRANDE

DESCARGA PROMEDIO MENSUAL

(Unit: m³/s)

YEAR	MONTH												ANNUAL AVER
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972							28.57	30.18	28.12	14.03	72.85	282.54	
1973	504.19	311.79	349.52							57.68	155.32	221.44	
1974	1440.16	2616.61	1485.32										
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992													
1993													
1994													
AVER	972.18	1464.20	917.42	#DIV/0!	#DIV/0!	#DIV/0!	28.57	30.18	28.12	35.86	114.09	251.99	#DIV/0!

MONTHLY MAXIMUM DISCHARGE: **DESCARGA MAXIMA MENSUAL**
 STATION: 0402 PUERTO PAILAS
 RIVER: RIO GRANDE

(Unit: m³/s)

YEAR	MONTH												ANNUAL MAX
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972							46.60	125.00	70.00	119.00	232.00	1210.00	
1973	1900.00	525.00	740.00							180.00	405.00	1300.00	
1974	4200.00	4740.00	2650.00										
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992													
1993													
1994													
AVER.	3050.00	2632.50	1695.00	#DIV/0!	#DIV/0!	#DIV/0!	46.60	125.00	70.00	149.50	318.50	1255.00	#DIV/0!

Note: Italic value shows the monthly maximum of daily average discharge.

MONTHLY MINIMUM DISCHARGE
 STATION: 0102 PUERTO PAILAS
 RIVER: RIO GRANDE

DESCARGA MINIMA MENSUAL

(Unit: m³/s)

YEAR	MONTH												ANNUAL MIN
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972							<i>18.80</i>	<i>11.60</i>	<i>19.20</i>	<i>4.20</i>	<i>30.20</i>	<i>22.00</i>	
1973	<i>70.00</i>	<i>135.00</i>	<i>155.00</i>						<i>12.00</i>	<i>21.00</i>	<i>32.50</i>		
1974	<i>435.00</i>	<i>1300.00</i>	<i>600.00</i>										
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992													
1993													
1994													
AVER.	252.50	717.50	377.50	#DIV/0!	#DIV/0!	#DIV/0!	18.80	11.60	19.20	8.10	25.60	27.25	#DIV/0!

Note: Italic value shows the monthly minimum of daily average discharge.