

PLUVIOMETRIA DE CHILE

ANEXO 1

HOYA HIDROGRÁFICA N° 313
Río Bio - Bio

OCTUBRE 1971

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CORFO

ESTADÍSTICAS PLUVIOMÉTRICAS

Anexo 1.

El presente Anexo contiene las estadísticas pluviométricas mensuales y anuales de un total de ochocientas cincuenta estaciones, cuyo catastro e índice se incluye entre las páginas 1 a 40 del Tomo I de esta publicación.

Las estaciones en este Anexo, se presentan ordenadas de acuerdo al número secuencial de identificación de cada estación por división hidrográfica. Las divisiones hidrográficas, a su vez, se encuentran ordenadas en el orden secuencial de su nomenclatura.

Esta Publicación consta de un Tomo y dos Anexos.-

El autor expresa su reconocimiento al Ingeniero Sr. Octavio Castillo Urrutia,
que contribuyó valiosamente a la realización de esta publicación

Los antecedentes pluviométricos con
tenidos en esta publicación fueron proporcionados por
ENDESA, Oficina Meteorológica y Dirección de Aguas del
Ministerio de Obras Públicas y Transporte.

PRECIPITACIONES (MM)													

ZCNA 7 HCYA 313 EJC BIC SUP 24262 (KM2)													
EST 1 CONCEPCION PRCP OMC TIPC MT													
LAT 3650 LCN 7303 ALT 10 (MTS)													

ANC	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TCT
1876	6.8	18.6	128.6	46.2	77.4	138.5	267.2	172.7	29.8	234.0	31.1	0.0	1150.9
1877	0.0	39.2	26.6	158.4	105.9	117.5	260.2	103.6	188.4	129.2	39.6	13.2	1277.2
1878	0.0	11.4	73.6	101.1	239.2	412.2	185.7	72.4	114.6	30.8	89.7	15.4	1247.1
1879	22.6	1.2	14.0	64.8	123.4	207.8	267.7	298.2	29.8	30.0	10.2	33.2	1102.5
1880	49.6	16.2	22.0	46.6	115.0	449.0	504.7	204.0	49.8	87.0	10.2	61.6	1715.3
1881	12.0	30.4	25.0	181.6	128.1	144.0	180.0	126.1	149.3	111.6	55.8	4.0	1283.3
1882	22.2	31.6	73.3	53.6	184.4	146.9	231.1	300.5	94.5	19.6	83.2	0.0	1240.9
1883	6.0	3.8	132.8	40.6	196.3	386.7	52.6	246.4	58.4	73.8	75.8	0.0	1130.5
1884	4.2	2.4	35.7	233.6	186.0	145.0	86.6	257.8	106.4	92.4	16.6	35.8	1077.5
1885	84.0	41.8	85.2	70.0	136.0	199.0	172.1	104.5	71.2	34.4	15.2	22.6	910.6
1886	19.0	8.0	85.2	23.0	136.0	199.0	172.1	104.5	71.2	34.4	15.2	22.6	910.6
1887	5.0	4.0	8.0	24.6	87.3	433.5	182.4	412.8	151.2	64.6	15.8	29.0	1460.5
1888	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1085.0
1889	99.0	7.0	24.0	69.0	273.0	179.0	311.0	206.0	129.0	15.0	14.0	12.0	962.0
1890	59.0	5.0	20.0	94.0	121.0	179.0	288.0	26.0	129.0	15.0	14.0	12.0	962.0
1891	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1085.0
1892	6.3	60.1	25.5	23.5	295.5	114.5	156.5	172.7	57.4	33.5	15.8	21.7	767.4
1893	1.0	0.0	40.0	74.0	185.8	103.8	235.8	142.0	18.4	33.5	15.8	6.9	1030.3
1894	40.6	0.0	76.1	3.0	185.8	111.7	162.1	142.3	101.3	163.0	157.3	46.3	1189.7
1895	6.6	13.9	76.2	15.1	48.8	147.2	255.6	388.0	104.8	110.0	48.0	91.6	1305.6
1896	6.3	0.0	5.4	5.5	72.5	207.0	319.1	188.8	329.3	74.0	21.0	2.3	1281.6
1897	1.0	28.6	174.0	101.2	225.5	171.0	272.1	106.6	85.1	63.0	55.6	25.4	1200.5
1898	2.0	152.1	32.0	206.1	165.0	461.8	272.1	109.0	133.1	37.0	55.0	161.0	1883.9
1899	24.1	137.1	250.0	250.0	250.0	276.0	644.0	484.5	14.2	12.0	43.0	0.0	2238.9
1900	13.9	70.2	186.2	76.3	333.0	291.2	642.0	223.3	86.0	123.0	71.9	0.0	2127.7
1901	17.3	20.0	66.0	66.0	333.0	376.0	642.0	223.3	48.0	123.0	71.9	0.0	1572.7
1902	17.3	20.0	66.0	66.0	333.0	376.0	642.0	223.3	48.0	123.0	71.9	0.0	1572.7
1903	7.0	10.3	109.8	104.2	336.0	606.6	243.3	73.8	121.4	16.8	38.5	7.7	1737.6
1904	8.6	0.0	14.8	51.0	128.6	578.6	102.6	120.3	60.9	42.4	8.8	1.9	1136.8
1905	39.6	5.3	55.1	163.8	295.2	402.4	680.8	170.4	154.0	77.7	22.9	62.0	2131.0
1906	1.0	0.0	211.8	78.0	155.8	217.0	323.8	191.6	147.4	78.8	10.8	42.4	1560.8
1907	1.0	47.0	30.0	108.0	298.8	228.5	254.2	141.0	100.4	32.0	19.8	22.1	1351.5
1908	0.0	24.3	58.0	73.4	210.4	154.6	241.0	158.0	180.0	30.0	19.8	36.6	1153.4
1909	0.0	8.6	4.2	49.0	81.0	180.8	256.5	91.0	65.6	55.0	105.3	11.6	976.3
1910	0.0	0.0	12.4	72.0	80.6	256.1	263.2	286.0	13.0	99.0	21.0	0.0	1046.3
1911	1.0	3.8	5.8	86.6	412.3	122.4	124.0	125.3	85.5	11.8	57.8	3.0	1088.9
1912	1.0	12.2	13.4	144.8	194.4	188.2	160.2	181.5	91.2	48.0	76.4	18.3	1102.9
1913	0.0	0.0	16.4	154.4	166.5	103.9	422.5	165.0	51.0	20.0	18.0	18.0	1360.9
1914	54.0	0.0	43.2	61.3	151.1	194.8	422.5	159.1	205.1	78.2	85.0	19.3	1674.2
1915	3.0	5.4	5.5	147.6	467.2	172.1	222.0	171.2	41.1	16.9	26.6	20.2	1299.1
1916	43.6	0.0	87.0	69.8	232.2	56.6	146.8	222.0	177.4	51.6	124.1	60.0	1272.0
1917	11.4	41.0	2.0	19.4	122.6	326.0	62.0	90.0	250.0	47.0	188.1	4.0	1433.0
1918	3.0	0.0	80.9	163.4	233.7	328.8	12.0	159.5	111.0	47.0	188.1	4.0	1433.0
1919	5.0	31.5	33.0	204.2	385.5	191.2	341.8	126.9	138.0	12.0	79.8	17.4	1567.3
1920	0.5	0.0	75.3	34.0	271.5	204.7	62.0	168.7	111.0	68.0	57.5	14.9	1069.3

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ANC	ENE	FEB	MAR	APR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1921	13.0	15.5	27.6	57.7	256.6	181.1	47.0	143.0	13.0	22.7	1.5	59.9	840.4
1922	38.7	1.4	140.6	50.6	67.2	399.4	422.8	262.0	93.7	47.0	6.1	0.0	1539.7
1923	33.2	27.1	122.2	3.8	38.2	271.4	203.1	276.4	56.0	110.4	74.0	28.3	1224.3
1924	0.0	19.0	56.0	27.7	59.1	213.1	216.0	60.5	63.0	2.0	0.0	2.5	718.9
1925	0.0	17.0	55.5	172.0	76.4	284.4	208.0	138.6	277.0	30.0	54.4	33.1	1423.5
1926	9.9	18.0	2.2	58.9	142.4	226.4	310.3	200.0	126.5	86.8	17.9	64.0	1773.3
1927	6.3	8.4	2.2	41.5	516.4	222.2	276.1	128.2	208.5	52.0	26.6	12.0	1529.5
1928	10.7	23.7	37.9	155.0	265.0	196.7	178.4	56.2	16.6	9.0	32.4	31.0	1012.6
1929	5.0	2.0	1.0	49.0	140.0	212.0	132.0	34.0	151.0	33.0	21.0	54.0	1088.0
1930	2.0	0.0	28.0	287.0	141.0	334.0	471.0	188.0	77.0	141.0	66.0	133.0	1868.0
1931	6.0	0.0	26.0	139.0	89.0	312.0	233.0	133.0	44.0	71.0	21.0	1.0	1132.0
1932	6.0	2.0	25.0	205.0	29.0	228.0	339.0	221.0	114.0	124.0	20.0	78.0	1686.0
1933	9.0	8.0	21.0	111.0	172.0	228.0	71.0	208.0	61.0	33.0	6.0	40.0	1072.0
1934	0.0	14.0	36.0	110.0	247.0	254.0	147.0	60.0	25.0	43.0	10.0	5.0	1149.0
1935	12.0	76.0	15.0	26.0	221.0	282.0	208.0	197.0	99.0	123.0	77.0	22.0	1458.0
1936	9.0	9.0	35.0	124.0	330.0	194.0	246.0	257.0	75.0	55.0	32.0	81.0	1447.0
1937	0.0	63.0	4.0	51.0	201.0	141.0	291.0	480.0	41.0	25.0	38.0	10.0	1345.0
1938	0.0	0.0	110.0	15.0	279.0	196.0	322.0	85.0	127.0	93.0	196.0	0.0	1435.0
1939	40.0	68.0	11.0	15.0	375.0	297.0	105.0	304.0	55.0	191.0	0.1	15.0	1516.1
1940	0.0	78.0	9.0	208.0	448.0	509.0	404.0	37.0	113.0	76.0	33.0	30.0	1945.0
1941	0.0	45.0	44.0	86.0	164.0	232.0	582.0	297.0	33.0	32.0	127.0	49.0	1691.0
1942	3.0	9.0	20.0	63.0	89.0	142.0	272.0	267.0	80.0	44.0	55.0	1.0	1035.0
1943	0.0	6.0	101.0	32.0	344.0	113.0	156.0	228.0	134.0	26.0	18.0	2.0	1160.0
1944	5.0	2.0	4.0	30.0	203.0	225.0	149.0	329.0	53.0	137.1	54.5	0.1	1223.0
1945	0.8	77.5	35.7	80.4	336.0	96.4	245.0	160.0	93.6	225.1	116.9	12.7	1281.3
1946	16.3	22.7	59.6	70.9	221.1	181.4	188.6	175.0	175.8	11.6	68.1	69.9	1144.3
1947	3.8	0.1	79.9	66.9	116.1	337.0	192.0	123.2	126.8	95.1	36.3	15.0	1192.8
1948	12.0	0.7	13.9	117.6	206.4	148.0	282.8	129.2	215.1	59.9	1.9	42.0	1229.5
1949	0.0	38.5	64.6	13.9	441.5	293.1	66.0	26.9	14.1	3.5	7.2	55.4	1025.5
1950	0.0	0.8	70.6	118.6	397.0	273.9	66.0	410.4	137.6	53.3	96.2	3.8	1663.8
1951	127.0	8.1	19.2	5.6	374.0	472.0	358.7	81.6	125.5	19.0	91.7	38.7	1649.7
1952	0.0	55.0	81.6	3.0	207.8	194.1	160.6	60.6	56.4	96.3	27.5	0.4	953.3
1953	89.7	10.0	33.0	64.5	229.2	115.6	332.0	339.7	242.0	40.3	13.9	22.7	1627.6
1954	1.2	37.3	6.1	112.8	231.0	286.7	33.0	220.6	73.8	48.3	17.7	24.4	1468.6
1955	15.3	68.8	2.2	72.6	84.0	295.0	60.0	220.4	47.8	9.6	0.0	81.6	959.4
1956	60.7	12.7	101.8	104.0	146.4	99.5	244.8	96.5	57.5	69.0	17.6	72.7	1013.2
1957	18.9	0.0	3.2	51.0	388.0	90.3	556.4	267.6	83.4	118.0	40.9	79.1	1497.1
1958	15.7	0.5	13.7	73.0	313.8	298.3	309.9	176.0	143.2	10.0	98.9	0.0	1333.9
1959	42.9	3.7	74.6	258.5	203.8	126.3	62.0	131.0	112.0	86.0	5.4	0.0	1407.3
1960	68.9	1.2	61.3	49.6	68.8	390.6	223.4	83.9	63.8	131.2	14.1	8.9	1165.7
1961	64.9	2.8	87.6	25.1	82.6	212.8	380.0	220.7	221.3	54.7	3.4	0.0	1356.2
1962	3.1	0.0	21.1	97.1	63.1	211.1	23.0	185.0	70.2	51.0	21.9	0.5	751.8
1963	0.0	20.8	29.4	65.0	75.8	221.5	268.9	164.4	164.4	110.1	108.9	8.0	1529.5
1964	37.0	10.0	7.0	22.0	89.0	229.0	117.0	220.0	123.0	6.0	36.0	135.0	931.0
1965	5.0	41.0	12.0	130.0	121.0	221.0	227.0	333.0	61.0	74.0	171.0	33.0	1529.0
1966	0.6	1.5	11.0	138.0	140.0	402.0	360.0	259.0	36.0	44.0	15.0	100.0	1508.0
1967	30.0	39.0	14.0	15.0	263.0	142.0	255.0	129.0	83.0	63.0	20.0	12.0	1069.0
1968	1.6	17.7	19.9	58.6	25.7	234.7	49.8	64.1	105.4	57.3	57.1	94.2	786.1
MIN	0.0	0.0	0.0	1.2	25.7	56.1	23.5	26.0	11.0	2.0	0.0	0.0	665.6
MAX	127.0	192.1	211.8	287.0	516.4	609.6	680.0	484.0	377.2	234.0	196.0	161.0	2238.3
PRCN	19.9	20.2	48.7	84.0	206.4	246.4	246.0	190.1	102.4	59.4	44.9	30.1	1301.3
DESV	26.4	28.4	47.4	64.7	117.5	125.6	125.7	102.7	66.4	44.3	43.2	33.1	321.2
CV	1.3	1.4	1.0	0.8	0.6	0.5	0.6	0.5	0.6	0.7	1.0	1.1	0.2

NCTA:VALCRES NEGATIVES INDICAN DATCS DESCNCCICCS

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO
EST 2 CERRO CARACOL
LAT 3650 LON 7303 ALT 100 (MTS)

SUP 24262 (KM2)

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ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1927	6.3	8.4	27.0	40.8	416.2	232.1	248.2	118.9	200.9	48.7	27.4	10.2	1385.1
1928	11.6	23.3	32.7	147.4	251.5	191.8	157.6	61.8	15.5	9.2	34.3	30.7	967.4
1929	59.0	3.0	2.0	45.0	128.0	213.0	110.0	198.0	147.0	42.0	16.0	63.0	1026.0
1930	3.0	0.0	28.0	296.0	124.0	304.0	428.0	165.0	70.0	140.0	61.0	129.0	1748.0
1931	61.0	0.0	30.0	147.0	83.0	341.0	202.0	169.0	50.0	90.0	23.0	1.0	1197.0
1932	5.0	2.0	22.0	182.0	26.0	503.0	317.0	301.0	115.0	115.0	20.0	76.0	1684.0
1933	97.0	11.0	24.0	132.0	166.0	234.0	118.0	199.0	64.0	65.0	33.0	61.0	1204.0
1934	4.0	18.0	45.0	39.0	321.0	768.0	176.0	89.0	52.0	60.0	7.0	8.0	1587.0
1935	58.0	119.0	16.0	28.0	337.0	330.0	247.0	234.0	112.0	114.0	90.0	24.0	1709.0
1936	18.0	15.0	36.0	226.0	466.0	262.0	285.0	257.0	70.0	63.0	31.0	76.0	1805.0
1937	0.0	52.0	3.0	47.0	159.0	111.0	216.0	381.0	36.0	23.0	30.0	8.0	1066.0
1938	15.0	0.0	93.0	30.0	210.0	145.0	247.0	68.0	102.0	76.0	83.0	0.0	1069.0
1939	31.0	54.0	10.0	13.0	341.0	232.0	87.0	276.0	84.0	167.0	0.0	15.0	1310.0
1940	1.0	75.0	7.0	162.0	401.0	385.0	445.0	55.0	66.0	82.0	65.0	30.0	1774.0
1941	0.0	45.0	44.0	86.0	164.0	230.0	582.0	297.0	33.0	32.0	143.0	51.0	1707.0
1942	1.0	7.0	17.0	41.0	99.0	181.0	266.0	259.0	79.0	31.0	56.0	1.0	1038.0
1943	0.0	5.0	100.0	31.0	389.0	121.0	142.0	252.0	140.0	32.0	16.0	3.0	1231.0
1944	5.0	4.0	4.0	21.8	206.8	208.8	132.5	365.6	62.0	151.0	62.5	0.0	1224.0
1945	0.3	59.6	50.7	78.1	295.8	94.4	211.1	140.5	72.9	25.8	101.5	5.7	1136.4
1946	12.7	18.2	10.9	53.0	211.9	149.0	156.4	84.8	151.1	22.4	55.2	85.2	1010.8
1947	3.8	1.6	78.4	61.0	76.5	272.0	180.0	89.4	98.1	96.0	29.6	15.3	1001.7
1948	10.4	0.5	13.2	92.8	201.5	151.2	218.4	119.3	177.4	48.8	0.4	5.9	1039.8
1949	0.0	29.5	53.2	30.2	291.7	169.4	53.9	32.0	13.2	3.0	3.2	50.8	730.1
1950	0.0	0.3	61.7	113.9	293.9	214.4	64.0	286.3	108.5	42.2	41.7	7.0	1233.9
1951	85.7	8.8	14.4	1.8	291.2	370.0	318.7	62.4	82.5	18.8	110.8	30.3	1395.4
1952	0.0	11.5	93.9	3.3	229.8	236.1	219.8	99.1	63.4	125.6	28.1	0.0	1110.6
1953	108.7	10.2	60.9	77.0	309.5	142.1	268.8	344.2	249.4	42.9	14.9	31.2	1659.8
1954	3.8	50.6	8.8	124.8	298.1	380.3	370.6	357.3	81.8	51.6	19.3	15.8	1762.8
1955	12.7	48.9	2.0	128.6	86.0	353.7	76.9	309.1	35.3	10.1	0.0	102.4	1165.7
1956	70.5	11.2	100.3	74.5	129.1	101.7	194.4	87.8	52.9	77.2	19.0	0.0	918.6
1957	16.4	0.0	0.8	43.9	406.3	83.6	285.0	199.4	85.4	45.4	26.5	91.9	1284.6
1958	6.2	0.8	14.0	54.2	318.5	257.0	121.3	153.4	121.2	8.4	91.2	0.0	1146.2
1959	42.3	3.5	48.2	246.6	208.6	114.7	309.1	153.1	89.8	81.9	2.7	0.0	1300.5
1960	53.7	2.2	48.1	47.4	80.0	378.8	155.3	77.8	57.4	122.9	14.5	8.5	1046.6
1961	66.5	2.5	60.0	26.2	67.7	157.9	261.2	193.0	139.6	46.7	4.9	0.0	1026.2
1962	1.0	0.0	19.7	72.7	47.6	186.2	19.6	104.3	52.3	46.0	13.6	4.5	567.5
1963	24.1	20.9	35.3	86.7	235.8	248.9	223.8	186.5	89.4	63.6	39.9	30.5	1243.8
1964	26.0	5.0	5.0	25.0	68.0	96.0	108.0	162.0	72.0	5.0	30.0	122.0	724.0
1965	7.0	35.0	13.0	121.0	109.0	170.0	281.0	250.0	56.0	58.0	46.0	37.0	1183.0
1966	0.0	3.0	13.0	128.0	111.0	372.0	231.0	200.0	29.0	42.0	21.0	106.0	1256.0
1967	39.0	38.0	13.0	16.0	226.0	167.0	213.0	101.0	69.0	58.0	23.0	15.0	978.0
1968	0.7	21.3	23.1	55.3	29.4	174.4	62.0	77.2	107.8	46.8	65.9	94.2	758.1
MIN	0.0	0.0	0.8	1.8	26.0	83.6	19.6	32.0	13.2	3.0	0.0	0.0	567.5
MAX	108.7	119.0	100.3	296.0	466.0	768.0	582.0	381.0	249.4	167.0	143.0	129.0	1805.0
PROM	23.0	19.6	32.9	82.8	212.2	238.9	214.5	181.3	87.0	60.2	38.1	34.4	1224.1
DESV	29.7	25.4	28.5	67.3	118.9	129.1	113.1	97.3	48.7	40.9	33.2	38.4	312.2
CV	1.3	1.3	0.9	0.8	0.6	0.5	0.5	0.5	0.6	0.7	0.9	1.1	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)

EST 4 CHIGUAYANTE

LAT 3654 LON 7300 ALT 18 (MTS)

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1939	32.0	60.0	10.0	13.0	435.0	215.0	79.0	302.0	82.0	87.0	1.0	21.0	1337.0
1940	5.0	68.0	24.0	173.0	404.0	481.0	524.0	43.0	73.0	86.0	75.0	31.0	1987.0
1941	0.0	57.0	29.0	96.0	182.0	221.0	-1.0	-1.0	31.0	57.0	157.0	49.0	-1.0
1942	3.0	0.0	20.0	75.0	93.0	146.0	304.0	278.0	116.0	47.0	43.0	0.0	1125.0
1943	0.0	3.0	120.0	35.0	309.0	121.0	192.0	236.0	171.0	3.0	23.0	1.0	1214.0
1944	14.0	10.0	6.5	40.5	314.0	277.0	154.0	403.0	68.5	127.0	59.5	0.0	1474.0
1945	0.0	54.0	41.5	87.5	331.0	127.0	316.0	174.0	102.0	25.0	135.0	0.0	1393.0
1946	10.0	19.0	25.0	70.9	298.0	188.0	223.0	74.0	176.0	24.0	114.0	98.0	1319.9
1947	0.0	0.0	79.5	65.0	131.5	484.0	202.0	112.0	169.0	94.0	30.0	16.0	1383.0
1948	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	247.0	81.0	0.0	8.0	-1.0
1949	0.0	46.0	86.0	48.5	443.7	318.0	74.5	20.0	37.0	0.0	16.0	63.0	1152.7
1950	0.0	13.5	39.0	161.2	384.0	262.0	114.0	479.0	160.0	79.0	102.0	3.0	1796.7
1963	8.0	8.0	25.0	35.0	79.0	237.0	311.0	340.0	136.0	53.0	76.0	5.0	1313.0
1964	31.0	11.0	10.0	37.0	-1.0	62.0	101.0	224.0	96.0	24.0	44.0	-1.0	-1.0
MIN	0.0	0.0	6.5	13.0	79.0	62.0	74.5	20.0	31.0	0.0	0.0	0.0	1125.0
MAX	32.0	68.0	120.0	173.0	443.7	484.0	524.0	479.0	247.0	127.0	157.0	98.0	1987.0
PRQM	7.9	26.9	39.7	72.1	283.7	241.5	216.2	223.8	118.9	56.2	62.5	22.7	1408.7
DESV	11.4	25.7	34.4	48.3	131.0	128.0	131.0	145.1	60.9	37.8	49.6	30.3	263.9
CV	1.4	1.0	0.9	0.7	0.5	0.5	0.6	0.6	0.5	0.7	0.8	1.3	0.2

668.

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
EST 5 PICHAGO
LAT 3655 LON 7250

669.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1920	14.0	0.5	134.9	74.4	243.4	146.2	94.5	205.6	131.4	80.8	156.6	43.2	1312.9
1921	56.6	57.2	63.5	168.3	451.9	238.2	92.7	174.3	52.6	40.4	2.1	112.4	1510.2
1922	55.0	0.0	198.2	38.8	125.1	389.2	572.9	277.8	131.2	95.0	20.5	0.0	1903.7
1923	-1.0	-1.0	-1.0	-1.0	-1.0	394.5	208.2	303.2	93.4	168.0	77.3	0.0	-1.0

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 6 LLEPINGUE
 LAT 3657 LON 7255 ALT 22 (MTS)

670.

ANO ENE FEB MAR ABR MAY JUN JUL AG SEP OCT NOV DIC TOT

1918	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	1.7	-1.0
1919	1.9	22.1	29.6	246.5	501.0	192.9	442.0	157.1	202.6	11.0	104.8	22.0	1933.5
1920	0.0	0.0	115.8	51.3	406.0	282.0	152.3	167.3	128.0	64.7	75.7	17.9	1461.0
1921	11.7	24.4	23.9	96.6	425.6	245.5	61.7	275.9	8.9	48.8	1.6	70.8	1295.4
1922	50.4	0.0	140.9	23.8	94.8	495.1	490.5	282.6	103.1	69.0	0.0	0.0	1750.2
1923	11.2	41.9	74.6	2.8	21.9	341.0	185.8	318.2	76.5	89.5	46.5	63.5	1273.4
1924	0.0	38.5	62.7	22.9	78.1	248.7	215.2	57.0	56.2	3.5	2.7	1.3	786.8
1925	1.7	28.3	18.8	150.4	81.1	285.4	202.8	187.0	361.5	30.1	63.4	44.6	1455.1
1926	14.0	6.8	232.5	69.9	194.5	566.4	320.8	251.0	166.3	162.0	22.6	52.3	2059.1
1927	2.5	19.7	34.5	37.1	570.5	217.2	287.6	137.9	301.7	51.0	33.1	13.7	1706.5
1928	17.1	30.3	65.5	196.9	286.1	205.8	196.3	71.5	20.5	14.6	53.5	19.8	1177.9
1929	93.0	0.0	0.0	46.0	189.0	317.0	164.0	241.0	171.0	45.0	23.0	64.0	1353.0
1930	0.0	3.0	37.0	283.0	119.0	565.0	580.0	172.0	74.0	135.0	79.0	179.0	2226.0
1931	72.0	0.0	20.0	147.0	106.0	480.0	313.0	201.0	68.0	70.0	19.0	0.0	1496.0
1932	6.0	0.0	33.3	251.0	33.0	614.0	370.0	382.0	88.0	159.0	24.0	77.0	2037.3
1933	105.0	7.0	15.0	111.0	216.0	306.0	176.0	294.0	50.0	74.0	3.0	57.0	1414.0
1934	0.0	9.0	50.0	38.0	311.0	705.0	204.0	89.0	44.0	49.0	19.0	23.0	1541.0
1935	34.0	90.0	23.0	25.0	371.0	346.0	237.0	257.0	112.0	106.0	93.0	29.0	1723.0
1936	20.0	0.0	55.0	202.0	422.0	292.0	304.0	281.0	85.0	44.0	32.0	83.0	1820.0
1937	0.0	61.0	8.0	42.0	215.0	171.0	313.0	531.0	55.0	35.0	19.0	9.0	1459.0
1938	7.0	0.0	113.0	48.0	262.0	281.0	362.0	156.0	126.0	44.0	109.0	0.0	1508.0
1939	40.0	54.0	0.0	0.0	448.0	311.0	129.0	381.0	78.0	175.0	4.0	21.0	1641.0
1940	0.0	85.0	14.0	212.0	445.0	575.0	599.0	43.0	82.0	100.0	79.0	57.0	2291.0
1941	0.0	36.0	28.0	40.0	179.0	292.0	734.0	319.0	3.0	73.0	168.0	79.0	1951.0
1942	0.0	23.0	15.0	64.0	111.0	152.0	315.0	368.0	117.0	38.0	51.0	4.0	1258.0
1943	0.0	10.0	99.0	60.0	343.0	100.0	169.0	225.0	181.0	20.0	20.0	0.0	1227.0
1944	8.0	8.0	9.0	40.0	288.0	286.3	152.9	453.0	49.9	137.8	90.9	0.0	1523.9
1945	0.2	89.6	54.3	118.3	387.2	115.2	321.3	208.0	70.9	34.5	117.1	9.5	1526.1
1946	51.6	22.2	10.0	89.6	291.4	155.3	217.3	102.2	188.5	35.7	112.3	68.0	1344.1
1947	12.9	0.0	98.9	50.9	137.1	516.7	193.3	148.0	162.8	100.2	28.8	20.8	1470.4
1948	8.7	0.0	13.4	138.0	236.1	215.9	321.2	119.3	238.0	76.3	0.0	56.9	1423.8
1949	0.0	43.4	97.9	39.1	553.9	343.6	83.4	39.1	22.5	9.3	0.0	80.8	1313.0
1950	0.0	0.0	57.4	155.9	432.4	377.0	107.6	558.7	182.7	71.4	103.5	1.7	2048.3
1951	138.4	11.7	15.4	0.0	518.2	434.8	435.6	81.5	121.4	31.1	115.0	39.5	1942.6
1952	0.0	6.9	119.6	11.0	211.9	242.4	207.4	56.9	64.9	81.9	25.7	0.0	1028.6
1953	112.1	7.6	27.3	69.3	503.8	110.5	354.3	403.3	331.8	41.0	17.6	23.5	2002.1
1954	0.0	24.3	0.0	109.0	315.2	377.2	465.6	258.5	65.9	49.1	12.3	23.5	1700.6
1955	7.8	46.5	2.7	84.2	117.5	343.9	44.1	274.9	52.2	3.8	0.0	114.1	1091.7
1956	101.8	16.4	117.7	146.1	173.1	111.2	294.6	114.2	93.8	63.9	18.8	0.5	1252.1
1957	9.1	0.0	0.0	54.0	421.5	131.3	492.7	352.5	89.3	2.9	61.9	67.6	1722.8
1958	2.4	3.9	11.1	73.9	358.1	338.0	217.1	220.5	121.2	11.0	96.9	0.0	1454.1
1959	66.1	0.0	73.5	362.2	188.9	163.2	457.6	180.9	160.0	93.6	1.1	0.0	1747.1
1960	64.4	0.0	62.0	43.2	74.5	573.6	345.4	89.1	74.2	165.4	11.2	16.1	1519.1
1961	72.0	3.2	74.0	16.9	93.4	309.4	529.4	285.0	406.5	45.2	5.6	0.0	1840.6
1962	0.7	0.0	27.8	109.6	48.0	312.8	32.7	234.6	62.3	41.3	23.6	8.8	872.2
1963	0.2	19.9	30.7	55.5	87.5	278.2	333.8	585.7	148.3	80.1	106.8	13.0	1739.7
1964	37.0	18.0	10.0	39.0	133.0	159.0	167.0	266.0	95.0	18.0	-1.0	-1.0	-1.0
1965	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1966	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0

MIN	0.0	0.0	0.0	0.0	21.9	100.0	32.7	39.1	3.0	2.9	0.0	0.0	786.8
MAX	138.4	90.0	232.5	362.2	570.5	705.0	734.0	585.7	406.5	175.0	168.0	179.0	2291.0
PROM	25.7	19.8	48.3	92.9	260.9	314.8	289.1	236.5	120.9	63.1	46.6	33.3	1564.6
DESV	36.9	24.5	47.5	81.6	157.1	150.4	155.7	134.8	89.8	45.6	43.6	37.5	340.3
CV	1.4	1.2	1.0	0.9	0.6	0.5	0.5	0.6	0.7	0.7	0.9	1.1	0.2

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO

SUP 24262 (KM2)

671.

EST 7 HUALQUI

LAT 3658 LON 7257 ALT 21 (MTS)

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1918	-1.0	-1.0	64.8	146.9	242.4	176.4	190.9	135.8	116.1	20.3	224.8	0.0	-1.0
1919	2.8	18.8	19.2	224.1	421.7	223.2	373.5	126.2	177.0	8.7	63.4	11.8	1670.4
1920	0.0	0.0	92.7	45.0	358.7	235.3	116.8	179.2	108.8	60.6	47.0	0.0	1244.1
1921	0.0	1.9	39.3	69.6	279.0	205.3	41.3	182.7	6.1	37.5	1.4	56.3	920.4
1922	40.0	0.0	106.1	25.1	67.6	429.8	370.1	228.4	84.1	65.0	0.8	0.0	1417.0
1923	7.5	29.6	89.6	0.0	26.5	366.6	221.6	307.3	61.7	106.7	65.3	42.3	1324.7
1924	2.5	24.2	53.8	21.6	79.5	251.0	212.1	60.4	43.9	1.3	4.2	0.3	754.8
1925	4.1	25.3	19.8	161.1	95.8	281.3	167.8	145.4	471.2	32.7	49.7	34.1	1488.3
1926	5.6	34.2	252.3	55.6	192.3	646.6	305.1	282.4	106.7	169.4	27.3	53.8	2131.3
1927	1.9	11.9	29.7	21.6	488.9	222.6	311.4	129.1	274.4	50.7	34.6	6.0	1582.8
1928	14.0	28.0	68.1	138.0	359.4	188.5	215.6	57.1	34.7	7.6	29.1	44.7	1184.8
1929	84.0	0.0	0.0	44.0	143.0	315.0	120.0	238.0	172.0	52.0	16.0	70.0	1254.0
1930	0.0	0.0	22.0	209.0	105.0	371.0	493.0	172.0	38.0	30.0	77.0	70.0	1587.0
1931	79.0	0.0	19.0	131.0	75.0	509.0	317.0	140.0	112.0	35.0	19.0	0.0	1436.0
1932	0.0	0.0	18.0	156.0	31.0	331.0	256.0	365.0	85.0	134.0	21.0	80.0	1477.0
1933	79.0	0.0	15.0	100.0	208.0	330.0	127.0	249.0	56.0	55.0	5.0	55.0	1279.0
1934	3.0	12.0	27.0	18.0	320.0	646.0	196.0	68.0	47.0	59.0	0.0	2.0	1398.0
1935	34.0	3.0	19.0	23.0	363.0	321.0	214.0	253.0	88.0	100.0	62.0	24.0	1564.0
1936	18.0	3.0	19.0	198.0	344.0	259.0	258.0	253.0	81.0	65.0	9.0	48.0	1585.0
1937	0.0	39.0	7.0	33.0	241.0	148.0	240.0	352.0	48.0	22.0	30.0	7.0	1167.0
1938	2.0	0.0	96.0	26.0	221.0	211.0	307.0	78.0	71.0	55.0	81.0	0.0	1148.0
1939	22.0	52.0	4.0	10.0	368.0	276.0	109.0	357.0	118.0	173.0	0.0	15.0	1504.0
1940	4.0	58.0	18.0	162.0	389.0	437.0	467.0	59.0	73.0	65.0	61.0	48.0	1841.0
1941	0.0	35.0	22.0	104.0	238.0	256.0	605.0	347.0	18.0	70.0	103.0	54.0	1852.0
1942	0.0	15.0	13.0	49.0	99.0	141.0	309.0	426.0	79.0	33.0	29.0	0.0	1193.0
1943	0.0	10.0	47.0	60.0	224.0	77.0	162.0	162.0	281.0	19.0	16.0	0.0	1058.0
1944	9.0	5.0	8.0	32.0	249.0	320.0	203.0	512.0	17.0	151.0	30.0	0.0	1536.0
1945	0.0	82.0	33.0	81.0	435.0	103.0	312.0	253.0	179.0	36.0	119.0	18.0	1651.0
1946	48.0	33.0	6.0	73.0	240.0	245.0	220.0	93.0	186.0	40.0	124.0	63.0	1371.0
1947	4.0	0.0	65.0	30.0	95.0	434.0	192.0	108.0	123.0	89.0	19.0	14.0	1173.0
1948	9.0	0.0	0.0	126.0	150.0	185.0	269.0	32.0	211.0	83.0	0.0	39.0	1104.0
1949	0.0	41.0	81.0	29.0	347.0	309.0	65.0	32.0	31.0	7.0	0.0	76.0	1018.0
1950	0.0	0.0	42.0	126.0	407.0	167.0	53.0	290.0	95.0	59.0	59.0	0.0	1298.0
1951	114.0	15.0	9.0	4.0	322.0	361.0	290.0	71.0	169.0	25.0	109.0	19.0	1508.0
1952	0.0	5.0	93.0	0.0	225.0	226.0	190.0	61.0	65.0	103.0	23.0	4.0	995.0
1953	81.0	10.0	37.0	71.0	402.0	117.0	304.0	371.0	362.0	40.0	5.0	24.0	1824.0
1954	0.0	20.0	0.0	99.0	230.0	407.0	202.0	149.9	40.0	41.0	17.0	13.8	1219.7
1955	1.0	38.8	0.0	74.9	100.9	336.8	34.6	242.9	20.4	0.0	0.0	81.9	932.2
1956	92.1	1.0	101.6	132.3	131.9	98.7	231.0	105.0	86.5	50.0	13.0	0.0	1043.1
1957	8.0	0.0	0.0	50.5	400.5	152.0	333.5	282.0	70.0	33.0	45.5	47.0	1422.0
1958	0.0	0.0	9.0	57.9	324.7	370.2	247.5	156.5	25.0	10.0	96.0	0.0	1296.8
1959	78.0	0.0	62.5	316.5	185.0	153.5	350.0	104.5	129.5	92.8	0.0	0.0	1472.3
1960	56.0	0.0	60.0	40.9	72.0	440.4	283.0	85.4	75.5	145.2	14.5	15.0	1287.9
1961	65.5	3.3	76.5	13.2	94.1	300.4	464.3	333.8	324.3	56.2	5.2	0.0	1736.8
1962	0.0	0.0	29.0	95.5	38.5	342.2	26.0	201.2	59.6	52.0	9.3	5.0	858.3
1963	0.0	14.0	27.4	42.5	89.8	260.8	354.0	529.9	167.9	90.1	97.6	11.5	1685.5
1964	45.0	18.0	5.0	29.0	122.0	149.0	175.0	265.0	81.0	19.0	45.0	219.0	1172.0
1965	8.0	78.0	9.0	200.0	136.0	285.0	380.0	353.0	50.0	37.0	-1.0	36.0	-1.0
1966	0.0	0.0	15.0	153.0	105.0	558.0	395.0	250.0	51.0	25.0	14.0	127.0	1693.0
1967	63.0	33.0	10.0	11.0	288.0	147.0	306.0	174.0	72.0	71.0	38.0	19.0	1232.5

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1968	-1.0	33.4	7.8	36.1	9.5	208.2	66.2	107.7	82.3	65.5	-1.0	-1.0	-1.0
MIN	0.0	0.0	0.0	0.0	9.5	77.0	26.0	32.0	6.1	0.0	0.0	0.0	754.8
MAX	114.0	82.0	252.3	316.5	488.9	646.6	605.0	529.9	471.2	173.0	224.8	219.0	2131.3
PRQM	22.1	16.6	38.6	81.5	219.2	284.9	248.1	206.2	110.3	57.8	40.0	31.1	1366.5
DESV	32.1	20.5	43.7	69.4	129.3	131.5	123.7	122.5	93.8	42.0	44.2	40.0	289.5
CV	1.5	1.2	1.1	0.9	0.6	0.5	0.5	0.6	0.9	0.7	1.1	1.3	0.2

672.

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

 ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 8 FUNDO EL MOLINO
 LAT 3658 LON 7257

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1964	32.0	14.0	5.0	29.0	79.0	132.0	157.0	245.0	79.0	19.0	48.0	198.0	1037.0
1965	0.0	40.0	8.0	194.0	125.0	260.0	318.0	277.0	76.0	79.0	162.0	33.0	1572.0
1966	0.0	0.0	12.0	151.0	133.0	528.0	351.0	190.0	13.0	4.0	6.0	151.0	1539.0

573.

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)

EST 9 CABRERO

LAT 3702 LON 7224

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1964	26.0	4.0	7.0	10.0	54.0	121.0	189.0	155.0	48.0	12.0	45.0	149.0	820.0
1965	24.0	40.0	14.0	142.0	109.0	195.0	315.0	275.0	35.0	48.0	171.0	36.0	1404.0
1966	0.0	0.0	-1.0	113.0	82.0	281.0	167.0	129.0	44.0	36.0	14.0	82.0	-1.0
1967	35.0	48.0	5.1	13.0	137.0	155.0	82.0	73.0	32.0	42.0	15.0	14.0	551.1
1968	2.0	8.0	34.0	62.0	11.0	154.0	30.0	76.0	41.0	30.0	48.0	74.0	571.0
MIN	0.0	0.0	5.1	10.0	11.0	121.0	30.0	73.0	32.0	12.0	14.0	14.0	551.1
MAX	35.0	48.0	34.0	142.0	137.0	281.0	315.0	275.0	48.0	48.0	171.0	149.0	1404.0
PROM	17.4	20.0	15.0	68.0	78.6	181.2	156.6	141.6	40.0	33.6	58.6	71.0	836.5
DESV	15.5	22.3	13.2	59.0	48.8	61.6	109.4	82.4	6.5	13.8	64.8	51.7	397.6
CV	0.9	1.1	0.9	0.9	0.6	0.3	0.7	0.6	0.2	0.4	1.1	0.7	0.5

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

 ZONA 7 HOYA 313 BIO BID SUP 24262 (KM2)
 EST 10 BATUCO EN YUMBEL
 LAT 3708 LON 7218

 ANO ENE FEB MAR ABR MAY JUN JUL AG SEP OCT NOV DIC TOT

 1966 0.0 0.0 3.0 106.0 141.0 356.0 292.0 175.0 54.0 55.0 9.0 110.0 1301.0
 1967 49.0 4.6 8.0 17.0 223.0 99.0 163.0 123.0 61.0 50.0 33.0 4.0 851.6
 1968 0.0 12.0 41.0 58.0 13.0 164.0 55.0 97.0 72.0 54.0 47.0 99.0 713.0

675.

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 11 YUMBEL
 LAT 3709 LON 7232 ALT 90 (MTS)

676.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1912	0.0	13.5	24.0	106.0	162.5	107.3	67.0	118.0	46.0	31.0	45.9	0.0	721.2
1913	0.0	0.0	12.1	122.7	274.6	75.2	308.0	167.2	62.9	0.0	0.0	12.0	1034.7
1914	48.0	0.0	0.9	65.0	135.0	317.8	463.9	103.4	187.0	95.0	53.0	25.0	1494.0
1915	0.0	21.0	15.0	115.3	446.0	64.0	213.0	91.0	42.0	12.0	12.0	8.0	1039.3
1916	38.0	0.0	71.0	77.0	113.0	0.0	103.0	183.0	128.7	42.0	39.0	68.0	862.7
1917	9.5	34.0	5.0	8.0	120.0	243.0	41.5	81.0	174.0	10.0	1.0	26.0	753.0
1918	17.0	0.0	52.0	139.0	240.5	199.0	165.0	130.0	98.0	9.5	198.2	1.2	1249.4
1919	3.0	27.3	8.7	152.1	420.1	177.4	305.7	117.5	136.9	13.8	48.3	11.5	1422.3
1920	-1.0	-1.0	-1.0	-1.0	298.8	175.8	66.9	153.2	106.9	55.6	49.6	3.0	-1.0
1921	16.2	9.8	19.4	73.0	334.8	132.1	15.7	123.7	4.0	40.0	5.0	67.7	841.4
1922	-1.0	-1.0	-1.0	13.5	62.3	310.5	-1.0	-1.0	96.9	36.4	0.0	0.0	-1.0
1923	-1.0	31.5	60.1	0.0	-1.0	273.5	126.8	275.0	17.5	103.5	149.4	0.0	-1.0
1924	8.9	22.5	19.2	10.6	46.3	205.7	113.9	41.7	-1.0	-1.0	0.0	0.0	-1.0
1925	0.0	0.0	0.0	8.9	-1.0	165.4	159.5	70.6	359.8	29.4	50.9	0.0	-1.0
1929	6.8	0.0	0.0	21.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1930	0.0	0.0	10.0	165.0	43.0	278.0	248.0	112.0	24.0	40.0	59.0	81.0	1060.0
1931	77.0	8.0	24.0	96.0	87.0	328.0	160.0	135.0	49.0	49.0	27.0	0.0	1040.0
1932	3.0	0.0	11.0	106.0	34.0	440.0	301.0	214.0	74.0	-1.0	-1.0	-1.0	-1.0
MIN	0.0	0.0	0.0	0.0	34.0	0.0	15.7	41.7	4.0	0.0	0.0	0.0	721.2
MAX	77.0	34.0	71.0	165.0	446.0	440.0	463.9	275.0	359.8	103.5	198.2	81.0	1494.0
PROM	15.2	10.5	20.8	75.2	187.9	205.5	178.7	132.3	100.5	37.8	46.1	19.0	1047.1
DESV	22.4	12.7	21.7	55.8	138.6	112.5	120.8	57.4	87.8	29.8	55.2	27.9	255.1
CV	1.5	1.2	1.0	0.7	0.7	0.5	0.7	0.4	0.9	0.8	1.2	1.5	0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO
EST 12 LA AGUADA

SUP 24262 (KM2)

677.

LAT 3710 LON 7225 ALT 150 (MTS)

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1911	0.0	0.0	20.0	156.6	415.0	109.7	125.0	101.3	130.0	13.5	74.4	27.2	1172.7
1912	0.0	3.6	29.5	135.0	182.9	156.6	68.1	150.3	52.4	46.3	63.5	5.0	893.2
1913	0.0	0.0	27.2	141.6	335.7	106.1	344.3	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1914	60.0	0.0	24.0	73.0	169.0	415.0	504.0	141.0	235.0	120.0	80.0	24.0	1845.0
1915	10.0	14.0	3.0	190.0	499.0	150.0	214.0	94.0	35.0	31.0	13.0	8.0	1261.0
1916	41.0	0.0	65.0	78.0	147.0	31.0	102.0	177.0	123.0	56.0	99.0	77.0	996.0
1917	12.0	28.0	12.0	4.0	129.0	236.0	44.0	62.0	181.0	20.0	3.0	38.0	769.0
1918	26.0	0.0	58.0	162.0	220.0	202.0	149.0	105.0	85.0	12.0	263.0	5.0	1287.0
1919	0.0	27.0	10.0	140.0	383.0	196.0	277.0	91.0	156.0	7.0	74.0	10.0	1371.0
1920	0.0	0.0	75.0	26.0	305.0	163.0	36.0	139.0	103.0	57.0	50.0	4.0	958.0
1921	17.0	28.0	29.0	79.0	309.0	120.0	53.0	93.0	22.0	42.0	11.0	50.0	853.0
1922	29.0	0.0	166.0	17.0	45.0	261.0	255.0	140.0	79.0	42.0	0.0	0.0	1034.0
1923	15.0	38.5	72.8	0.0	7.3	178.7	112.3	265.6	15.4	115.3	65.7	21.7	908.3
1924	0.0	41.6	43.3	32.6	57.4	190.5	160.2	46.8	39.4	9.3	5.1	3.0	629.2
1925	0.0	20.3	42.0	161.9	55.8	214.7	185.6	99.1	375.9	40.0	55.5	31.2	1282.0
1926	15.5	4.5	191.3	64.2	206.0	428.5	305.8	153.7	141.2	88.9	10.5	65.5	1675.6
1927	14.0	25.6	21.8	40.5	489.0	182.2	307.0	152.8	195.1	61.3	65.7	17.8	1572.8
1928	15.3	17.5	43.7	156.2	218.0	175.9	179.3	49.1	9.7	4.6	30.3	28.7	928.3
1929	60.0	0.0	0.0	36.0	144.0	275.0	81.0	260.0	190.0	30.0	24.0	87.0	1187.0
1930	0.0	3.0	14.0	200.0	97.0	249.0	395.0	162.0	33.0	144.0	55.0	95.0	1447.0
1931	78.0	7.0	20.0	98.0	76.0	333.0	158.0	128.0	70.0	59.0	29.0	0.0	1056.0
1932	7.0	1.0	12.0	129.0	23.0	504.0	254.0	248.0	70.0	109.0	9.0	114.0	1480.0
1933	93.0	14.0	33.0	122.0	183.0	233.0	135.0	228.0	54.0	62.0	9.0	41.0	1207.0
1934	30.0	19.0	46.0	24.0	203.0	591.0	123.0	65.0	42.0	61.0	3.0	9.0	1216.0
1935	33.0	93.0	24.0	18.0	264.0	238.0	121.0	211.0	94.0	50.0	96.0	24.0	1266.0
1936	21.0	4.0	18.0	140.0	30.0	220.0	201.0	126.0	60.0	35.0	19.0	26.0	900.0
1937	0.0	58.0	0.0	40.0	147.0	107.0	169.0	422.0	42.0	13.0	19.0	7.0	1024.0
1938	6.0	0.0	84.0	30.0	181.0	148.0	312.0	34.0	50.0	69.0	51.0	7.0	972.0
1939	67.0	45.0	2.0	10.0	214.0	164.0	59.0	283.0	74.0	156.0	17.0	14.0	1105.0
1940	29.0	90.0	18.0	145.0	274.0	361.0	318.0	40.0	79.0	53.0	61.0	23.0	1491.0
1941	0.0	32.0	22.0	76.0	167.0	190.0	461.0	219.0	19.0	48.0	144.0	45.0	1423.0
1942	5.0	3.0	14.0	52.0	120.0	105.0	228.0	437.0	122.0	23.0	48.0	0.0	1157.0
1943	0.0	0.0	100.0	44.0	344.0	105.0	119.0	221.0	252.0	29.0	21.0	0.0	1235.0
1944	17.0	13.0	0.0	15.0	216.0	321.1	168.0	571.3	70.2	191.7	60.7	0.0	1644.0
1945	0.0	96.9	54.8	70.8	593.7	125.7	265.0	243.6	116.9	14.6	106.9	5.0	1693.9
1946	43.7	46.8	4.4	120.7	232.2	273.6	242.8	91.2	190.6	38.0	89.7	90.1	1463.8
1947	2.3	0.0	109.2	72.5	184.2	503.2	142.9	113.2	184.8	94.6	23.9	26.8	1457.6
1948	26.8	0.0	8.7	178.7	173.2	200.2	354.7	91.6	255.6	71.9	0.0	60.2	1421.6
1949	0.0	22.8	120.3	29.8	439.0	419.5	43.5	48.6	26.8	2.3	5.3	82.3	1240.2
1950	0.0	2.3	48.5	152.8	474.0	444.9	57.6	610.7	243.6	44.9	144.6	7.4	2231.3
1951	133.7	14.2	15.3	6.0	496.7	651.5	503.5	139.6	145.2	19.7	143.4	39.2	2308.0
1952	0.0	20.6	145.5	1.8	324.0	257.8	215.3	92.0	68.8	147.5	30.9	0.0	1304.2
1953	162.1	5.8	81.6	107.4	610.8	105.2	312.3	460.7	393.2	34.3	13.0	18.2	2304.6
1954	0.0	31.5	0.0	105.6	239.4	400.4	534.2	220.7	99.6	51.6	24.0	11.4	1718.4
1955	8.8	48.7	0.0	25.9	82.7	166.3	22.2	204.2	38.0	3.6	0.3	58.3	659.0
1956	86.0	11.8	156.9	87.9	124.4	59.3	155.2	59.8	68.2	45.0	6.1	0.0	860.6
1957	17.7	0.0	4.0	32.9	270.8	59.3	277.7	153.3	65.7	16.8	17.0	35.3	950.5
1958	7.5	0.5	8.0	59.8	274.2	231.0	176.1	181.2	126.1	4.7	75.8	0.4	1145.3
1959	53.2	5.5	56.3	286.8	171.7	215.2	374.7	141.0	112.9	133.2	0.0	0.0	1550.5
1960	96.0	0.0	48.3	39.5	53.2	308.3	166.5	77.0	51.6	72.5	19.2	1.8	933.9

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1961	98.3	0.4	66.0	10.9	62.0	180.9	292.7	194.9	191.6	37.3	16.7	0.0	1151.7
1962	0.8	0.0	9.8	80.6	58.8	247.7	21.1	131.5	69.8	44.9	27.3	0.0	692.3
1963	4.0	27.8	19.3	49.3	94.9	190.5	293.6	305.4	121.2	61.6	52.1	3.7	1223.4
1964	31.0	3.0	5.0	13.0	64.0	117.0	130.0	155.0	57.0	19.0	45.0	187.0	826.0
MIN	0.0	0.0	0.0	0.0	7.3	31.0	21.1	34.0	9.7	2.3	0.0	0.0	629.2
MAX	162.1	96.9	191.3	286.8	610.8	651.5	534.2	610.7	393.2	191.7	263.0	187.0	2308.0
PROM	27.3	17.9	42.6	80.9	220.0	237.4	209.4	177.9	111.8	53.9	46.6	29.0	1252.5
DESV	36.8	24.1	46.0	63.6	150.4	134.8	128.6	126.6	85.1	43.5	48.9	36.7	384.0
CV	1.4	1.3	1.1	0.8	0.7	0.6	0.6	0.7	0.8	0.8	1.1	1.3	0.3

678.

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO
EST 13 SAN CRISTOBAL
LAT 3710 LON 7235 ALT 110 (MTS)

SUP 24262 (KM2)

679.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1913	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	73.2	12.9	-1.0	5.0	-1.0
1914	47.6	0.0	22.0	38.3	176.0	330.1	417.8	131.6	186.7	98.8	42.6	19.6	1511.1
1915	0.5	21.7	14.1	131.9	417.7	137.4	160.3	89.8	48.6	22.0	5.6	5.3	1054.9
1916	19.0	2.7	75.2	66.9	104.6	21.3	80.9	153.8	122.6	32.1	75.6	65.3	820.0
1917	8.3	42.3	11.3	3.4	108.6	235.5	42.3	57.0	157.8	20.2	0.0	23.0	709.7
1918	16.0	0.0	48.8	144.0	198.2	183.4	143.5	107.6	79.7	9.1	161.6	4.4	1096.3
1919	2.0	34.0	4.9	157.6	374.3	166.7	282.1	88.7	137.5	11.1	62.3	8.9	1330.1
1920	0.0	0.0	51.3	37.3	336.4	165.7	40.0	186.1	101.9	61.3	52.0	7.2	1039.2
1921	16.9	10.1	25.5	65.9	301.9	120.5	47.9	104.3	15.8	31.2	8.5	51.1	799.6
1922	33.5	0.0	158.3	19.4	68.7	283.2	286.7	175.6	103.8	31.2	0.0	0.0	1160.4
1923	0.8	33.0	62.5	1.6	15.8	245.2	127.1	249.2	44.3	100.9	60.7	20.3	911.4
1924	1.3	31.6	43.2	13.6	74.5	183.9	121.2	84.7	27.1	5.3	4.5	1.0	591.9
1925	0.0	16.5	28.6	136.4	47.3	165.0	146.1	68.0	361.6	30.0	49.5	25.2	1074.2
1926	9.0	0.0	169.8	42.7	160.4	386.6	233.7	184.9	105.2	72.7	29.8	43.2	1438.0
1927	0.0	13.5	13.7	23.6	422.0	195.9	257.6	87.3	216.6	54.2	41.5	11.2	1337.1
1928	6.1	19.3	25.7	141.5	218.5	129.1	132.3	39.0	8.3	1.0	20.5	34.0	775.3
1929	66.0	0.0	0.0	38.0	132.0	225.0	71.0	188.0	135.0	15.0	10.0	55.0	935.0
1930	0.0	0.0	11.0	155.0	87.0	259.0	406.0	158.0	11.0	129.0	47.0	87.0	1350.0
1931	77.0	8.0	19.0	97.0	79.0	323.0	198.0	133.0	49.0	53.0	16.0	0.0	1052.0
1932	4.0	0.0	7.0	138.0	13.0	541.0	265.0	221.0	59.0	102.0	10.0	92.0	1452.0
1933	64.0	3.0	13.0	109.0	156.0	209.0	113.0	188.0	51.0	48.0	3.0	38.0	995.0
1934	0.0	7.0	31.0	9.0	197.0	464.0	95.0	56.0	35.0	47.0	4.0	5.0	950.0
1935	14.0	60.0	22.0	17.0	203.0	228.0	103.0	190.0	76.0	75.0	65.0	16.0	1069.0
1936	0.0	5.0	19.0	130.0	249.0	201.0	207.0	132.0	39.0	38.0	24.0	19.0	1063.0
1937	0.0	41.0	1.0	39.0	145.0	80.0	159.0	399.0	30.0	13.0	10.0	5.0	922.0
1938	5.0	0.0	79.0	19.0	184.0	155.0	261.0	31.0	38.0	42.0	35.0	9.0	858.0
1939	16.0	30.0	0.0	9.0	237.0	193.0	72.0	245.0	79.0	158.0	0.0	12.0	1051.0
1940	5.0	88.0	9.0	116.0	273.0	321.0	389.0	40.0	63.0	44.0	50.0	19.0	1417.0
1941	0.0	36.0	29.0	52.0	181.0	189.0	507.0	228.0	6.0	55.0	150.0	32.0	1465.0
1942	2.0	0.0	29.0	41.0	85.0	75.0	203.0	254.0	63.0	28.0	44.0	0.0	824.0
1943	0.0	0.0	92.0	46.0	216.0	71.0	93.0	137.0	117.0	9.0	8.0	0.0	789.0
1944	15.0	10.0	0.0	9.0	157.1	189.0	78.1	278.2	21.8	94.1	39.0	0.0	891.3
1945	0.0	41.3	22.3	56.2	337.3	80.1	184.8	135.6	71.0	8.7	52.8	7.2	997.3
1946	16.7	41.5	2.5	55.5	194.9	196.2	128.2	51.0	120.2	13.4	54.7	78.1	952.9
1947	2.4	0.0	81.6	57.9	108.7	290.0	81.3	52.9	117.3	94.2	27.4	11.0	924.7
1948	2.4	0.0	13.3	97.6	148.2	149.2	206.5	48.1	149.6	38.1	0.5	47.7	901.2
1949	0.0	25.3	60.6	16.9	299.8	260.0	26.0	26.8	14.3	3.6	2.5	44.6	780.4
1950	0.0	0.0	30.9	103.4	308.9	213.4	28.4	249.5	113.8	38.0	73.2	6.3	1165.8
1951	57.9	5.9	4.1	1.6	284.1	358.2	276.2	60.6	44.2	16.2	74.7	17.4	1201.1
1952	0.0	2.0	59.5	0.0	174.3	138.7	106.9	32.6	41.5	58.8	12.6	0.0	626.9
1953	91.9	0.0	13.0	93.7	291.5	79.6	204.5	213.4	199.1	13.6	9.6	18.7	1228.6
1954	0.0	20.5	0.0	68.7	147.6	240.2	305.5	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1955	0.0	-1.0	0.0	-1.0	-1.0	-1.0	-1.0	144.8	26.7	2.6	0.0	40.8	-1.0
1956	63.6	15.6	93.3	86.7	111.7	74.8	154.2	52.1	53.8	30.6	8.6	0.0	745.0
1957	15.7	0.0	2.7	28.4	288.1	52.6	245.8	122.3	58.0	16.8	13.0	34.5	877.9
1958	3.5	0.0	13.0	37.4	251.0	228.2	169.2	146.9	116.1	4.4	82.8	3.0	1055.5
1959	51.3	0.0	37.6	225.0	130.5	143.2	255.0	73.8	73.3	74.3	0.0	0.0	1064.0
1960	58.9	0.0	51.8	22.6	39.1	339.0	130.8	55.0	41.5	74.0	9.3	0.1	822.1
1961	72.0	1.5	81.5	9.6	52.6	169.1	278.2	205.1	174.7	22.7	9.0	0.0	1076.0
1962	2.7	0.0	14.9	79.3	34.7	208.8	14.1	94.3	49.6	35.0	11.9	0.0	545.3

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1963	4.6	14.0	20.6	46.3	73.6	165.8	279.8	278.9	121.6	77.2	48.6	0.6	1131.6
1964	21.0	2.0	2.0	13.0	52.0	105.0	119.0	133.0	49.0	14.0	46.0	125.0	681.0
1965	21.0	24.0	14.0	110.0	94.0	193.0	310.0	248.0	30.0	60.0	-1.0	28.0	-1.0
1966	0.0	0.0	3.2	117.0	94.0	358.0	288.0	242.0	29.0	19.0	10.0	78.0	1238.2
1967	46.0	30.0	27.0	11.0	220.0	110.0	156.0	100.0	47.0	47.0	16.0	15.0	825.0
1968	1.0	15.0	21.0	51.0	10.0	155.0	60.0	83.0	89.0	25.0	57.0	72.0	638.0
MIN	0.0	0.0	0.0	0.0	10.0	21.3	14.1	26.8	6.0	1.0	0.0	0.0	545.3
MAX	91.9	88.0	169.8	225.0	422.0	541.0	507.0	399.0	361.6	158.0	161.6	125.0	1511.1
PROM	17.5	13.9	32.5	63.6	173.4	203.3	180.5	139.5	81.7	42.4	33.0	24.4	1004.1
DESV	24.9	18.5	36.5	52.2	105.6	103.1	109.8	82.2	64.0	34.5	34.6	28.6	240.4
CV	1.4	1.3	1.1	0.8	0.6	0.5	0.6	0.6	0.8	0.8	1.0	1.2	0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
EST 14 SANTA SUSANA
LAT 3710 LON 7259

681.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1968	-1.0	31.0	4.0	52.0	8.0	183.0	91.0	69.0	61.0	76.0	49.0	80.0	-1.0

PRECIPITACIONES (MM)

 ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 16 LOS QUILLALLES
 LAT 3715 LON 7232 ALT 112 (MTS)

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1923	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	52.8	32.7	-1.0
1924	6.0	44.0	58.0	9.0	71.0	290.0	201.0	48.0	51.0	15.0	7.0	6.0	806.0
1925	0.0	36.0	52.0	241.0	57.0	380.0	256.0	0	226.0	620.0	76.0	91.0	2098.0
1926	37.0	6.0	269.0	112.0	341.0	656.0	390.0	226.0	177.0	95.0	30.0	103.0	2442.0
1927	2.0	23.0	29.0	52.0	443.0	269.0	546.0	193.0	234.0	98.0	70.0	14.0	1973.0
1928	33.0	21.0	47.0	175.0	347.0	202.0	239.0	78.0	17.0	9.0	49.0	38.0	1255.0
1929	90.0	0.0	0.0	51.0	158.0	259.0	111.0	355.0	175.0	31.0	15.0	62.0	1307.0
1930	0.0	0.2	10.0	234.0	100.0	430.0	629.0	250.0	52.0	191.0	80.0	106.0	2082.0
1931	82.0	9.0	20.0	124.0	101.0	456.0	285.0	298.0	122.0	80.0	48.0	0.0	1625.0
1932	6.0	5.0	44.0	267.0	26.0	904.0	441.0	349.0	83.0	183.0	19.0	139.0	2466.0
1933	157.0	4.0	33.0	132.0	237.0	219.0	177.0	338.0	90.0	74.0	2.0	51.0	1514.0
1934	1.0	15.0	61.0	32.0	308.0	628.0	104.0	58.0	38.0	51.0	7.0	9.0	1312.0
1935	39.0	90.0	23.0	31.0	253.0	242.0	91.0	193.0	104.0	67.0	91.0	18.0	1242.0
1936	7.0	3.0	32.0	123.0	340.0	228.0	232.0	159.0	68.0	47.0	20.0	26.0	1285.0
1937	0.0	51.0	0.0	46.0	180.0	124.0	206.0	439.0	32.0	10.0	20.0	8.0	1116.0
1938	11.0	0.0	91.0	25.0	213.0	163.0	261.0	39.0	89.0	46.0	76.0	0.0	1014.0
1939	27.0	71.0	6.0	18.0	326.0	191.0	69.0	277.0	79.0	164.0	5.0	12.0	1245.0
1940	8.0	73.0	21.0	160.0	323.0	341.0	378.0	37.0	59.0	48.0	55.0	26.0	1529.0
1941	0.0	32.0	21.0	69.0	178.0	211.0	467.0	228.0	9.0	53.0	167.0	36.0	1471.0
1942	0.0	7.0	10.0	40.0	110.0	101.0	214.0	310.0	76.0	25.0	44.0	0.0	937.0
1943	0.0	0.0	99.0	36.0	238.0	75.0	126.0	165.0	153.0	11.0	14.0	0.0	917.0
1944	11.0	17.0	0.0	8.0	172.5	221.7	85.7	320.4	42.6	133.8	33.0	0.0	1045.7
1945	0.0	91.4	25.7	82.2	295.2	92.8	215.2	178.2	80.5	9.4	66.9	9.2	1146.7
1946	23.9	25.0	0.0	74.0	192.5	182.3	150.9	64.7	115.8	18.8	64.3	101.2	1013.4
1947	15.0	0.0	88.6	45.4	133.8	319.8	101.8	76.4	141.8	74.5	30.9	24.0	1052.0
1948	3.5	0.0	7.3	110.0	161.0	156.3	237.6	69.1	203.7	42.4	0.0	51.3	1042.7
1949	0.0	30.9	46.8	32.7	337.8	284.4	30.2	34.4	18.8	0.0	8.0	50.2	874.2
1950	0.0	0.0	17.5	78.4	344.3	263.3	41.9	339.7	137.0	36.4	88.8	5.1	1352.5
1951	46.5	20.2	4.6	1.4	334.5	410.0	328.4	69.8	73.3	22.3	85.4	23.1	1419.5
1952	0.0	5.8	78.6	4.0	206.0	180.9	132.5	62.9	47.5	96.8	15.5	0.0	830.5
1953	100.2	3.3	34.5	77.7	353.5	100.9	262.2	305.2	217.4	26.7	13.4	21.5	1516.5
1954	0.0	30.8	0.0	90.1	176.4	246.0	350.9	155.1	54.9	27.0	19.0	8.3	1158.5
1955	4.3	0.0	0.5	65.8	87.2	183.3	24.2	193.3	35.3	3.0	0.0	45.2	642.1
1956	70.2	13.7	183.0	87.5	158.2	104.7	182.7	69.3	51.9	37.0	6.0	0.0	914.2
1957	17.2	0.0	5.0	30.5	292.5	69.9	317.9	150.9	63.9	22.0	18.5	32.5	1020.8
1958	0.0	0.0	5.5	44.0	270.6	294.3	188.1	174.2	122.7	5.5	77.7	0.0	1182.6
1959	71.8	5.6	54.1	280.2	146.0	161.0	285.3	118.6	115.4	123.0	0.0	0.0	1361.0
1960	59.6	0.0	43.8	28.8	45.2	392.2	228.8	52.5	62.1	90.0	19.0	0.0	1022.0
1961	80.0	0.0	71.8	0.0	72.0	191.9	294.9	193.4	209.1	47.7	2.2	0.0	1163.0
1962	1.5	0.0	11.8	89.5	57.2	279.1	24.7	134.9	47.1	46.9	14.6	0.0	707.3
1963	0.0	22.6	29.2	59.6	87.3	243.4	315.8	350.8	137.5	85.6	64.4	6.8	1403.0
1964	30.0	7.0	8.0	11.0	79.0	105.0	121.0	152.0	64.0	27.0	53.0	182.0	839.0
1965	-1.0	38.0	20.0	167.0	119.0	266.0	289.0	294.0	46.0	90.0	180.0	50.0	-1.0
1966	0.0	0.0	-1.0	181.0	86.0	400.0	348.0	192.0	36.0	33.0	19.0	111.0	-1.0
1967	39.0	62.0	21.0	22.0	236.0	140.0	210.0	122.0	62.0	50.0	22.0	22.0	1008.0
1967	0.0	22.3	20.2	54.7	10.7	164.8	83.2	90.1	105.8	44.6	94.5	120.8	611.7
1968	0.0	22.0	20.0	55.0	11.0	165.0	83.0	90.0	106.0	45.0	94.0	121.0	812.0
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
MIN	0.0	0.0	0.0	0.0	10.7	69.9	24.2	34.4	9.0	0.0	0.0	0.0	611.7
MAX	157.0	91.4	269.0	280.2	443.0	904.0	629.0	439.0	620.0	191.0	180.0	182.0	2466.0
PROM	24.0	19.7	37.2	81.7	191.6	260.6	225.1	180.9	102.7	56.8	43.7	36.9	1244.9
DESV	35.2	24.7	46.7	71.9	112.8	161.8	136.6	108.5	96.0	46.0	41.3	44.6	432.4
CV	1.5	1.3	1.3	0.9	0.6	0.6	0.6	0.6	0.9	0.8	0.9	1.2	0.3
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

PRECIPITACIONES (MM)													

ZCNA 7													
HCOYA 313 BIC BIC SLP 24262 (KM2)													
EST 17 LA PALMA PRCP OMC TIFC FV													
LAT 3715 LCN 7225 ALT 160 (MTS)													

ANC	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
1933	77.0	6.0	32.0	134.0	117.0	205.0	111.0	216.0	53.0	64.0	2.0	30.0	1047.0
1934	0.0	10.0	26.0	17.0	228.0	470.0	97.0	88.0	28.0	4.0	3.0	3.0	1019.0
1935	22.0	49.0	0.0	22.0	251.0	259.0	107.0	187.0	94.0	63.0	79.0	14.0	1147.0
1936	3.0	2.0	43.0	123.0	203.0	170.0	224.0	145.0	48.0	33.0	20.0	14.0	1128.0
1937	0.0	37.0	0.4	38.0	162.0	120.0	190.0	418.0	30.0	14.0	11.0	4.0	1024.4
1938	8.0	0.0	90.0	19.0	188.0	167.0	239.0	60.0	38.0	48.0	58.0	2.0	917.0
1939	13.0	42.0	7.0	12.0	274.0	196.0	393.0	274.0	54.0	129.0	1.0	8.0	1144.0
1940	3.0	82.0	16.0	132.0	296.0	361.0	443.0	32.0	59.0	45.0	49.0	25.0	1543.0
1941	0.0	43.0	28.0	87.0	192.0	212.0	538.0	219.0	13.0	40.0	132.0	25.0	1529.0
1942	2.0	16.0	12.0	46.0	102.0	111.0	219.0	285.0	77.0	37.0	44.0	0.0	945.0
1943	0.0	0.0	54.0	44.0	200.0	77.0	129.0	163.0	135.0	11.0	12.0	0.0	865.0
1944	13.0	0.0	0.0	11.0	177.0	242.4	93.0	211.1	24.3	56.0	30.3	0.0	1007.3
1945	0.0	80.2	30.9	80.0	365.5	590.7	210.2	140.5	89.6	10.7	62.5	7.5	1169.2
1946	42.1	26.0	3.4	62.9	233.4	180.6	140.6	49.9	119.0	22.0	54.0	109.1	1042.6
1947	8.3	0.0	65.7	43.0	119.0	348.6	113.6	68.1	186.2	70.4	28.4	11.6	1018.5
1948	7.7	0.0	18.0	90.0	160.3	147.0	229.0	68.1	186.2	56.5	0.0	51.5	1014.0
1949	0.0	33.4	79.9	30.0	225.2	233.3	211.0	41.5	14.4	2.9	11.6	37.9	851.1
1950	0.0	0.0	18.5	127.4	224.4	282.7	48.1	343.2	132.0	36.4	95.6	22.6	1413.6
1951	62.0	22.5	73.8	6.6	223.6	403.1	320.2	71.2	62.0	14.0	70.8	22.6	1408.8
1952	1.0	27.2	79.8	8.0	240.1	193.6	123.1	61.4	54.8	80.9	17.1	0.0	1827.3
1953	92.6	4.2	33.8	70.8	208.9	188.4	223.0	215.5	231.3	18.0	14.0	21.0	1431.1
1954	0.0	22.0	0.0	88.2	166.2	233.3	326.6	131.9	70.0	20.1	19.0	3.3	1112.3
1955	0.0	25.0	0.0	49.0	100.0	155.5	225.4	187.0	30.0	4.3	1.0	48.7	650.4
1956	61.1	21.0	124.8	97.0	161.4	129.7	195.0	73.0	66.7	36.0	6.6	0.0	978.7
1957	10.6	6.5	0.0	44.0	287.5	167.5	332.0	168.0	66.5	50.9	12.1	42.8	1090.6
1958	3.4	0.0	8.9	35.1	298.0	228.1	172.0	174.6	106.8	5.1	81.0	0.0	1114.4
1959	52.9	0.0	67.4	268.0	129.9	165.0	289.0	117.0	95.0	125.6	0.0	0.0	1312.3
1960	47.7	0.0	59.4	27.5	39.0	333.0	156.0	60.3	67.7	81.5	18.3	10.7	905.0
1961	60.3	0.0	29.4	25.1	99.9	199.3	346.6	253.0	224.4	41.2	16.0	0.0	1187.6
1962	4.3	0.0	12.4	123.0	70.0	188.0	-1.0	148.6	68.4	59.0	9.0	0.0	-1.0
1963	6.3	32.9	48.9	58.9	116.6	217.0	347.0	374.0	130.0	16.0	46.0	154.0	1470.0
1964	21.0	42.0	15.0	17.0	93.0	97.0	125.0	130.0	45.0	16.0	46.0	1.0	752.0
1965	23.0	42.0	15.0	15.0	-1.0	269.0	252.0	267.0	36.0	-1.0	151.0	36.0	-1.0
1966	0.0	0.0	4.0	188.0	104.0	341.0	300.0	135.0	27.0	34.0	12.0	80.0	1225.0
1967	33.0	48.0	29.0	11.0	199.0	77.0	202.0	60.0	62.0	44.0	17.0	21.0	833.0
1968	0.0	-1.0	0.0	49.0	12.0	147.0	58.0	88.0	76.0	51.0	54.0	99.0	-1.0
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
MIN	0.0	0.0	0.0	6.2	9.5	67.5	25.8	32.0	13.0	2.9	0.0	0.0	650.4
MAX	92.0	82.0	124.8	268.0	265.7	470.0	538.0	418.0	231.3	129.0	151.0	24.9	1094.6
PRCP	19.9	19.8	33.1	67.0	190.7	206.0	201.0	166.0	80.1	45.2	36.2	35.3	226.1
DES	1.9	2.2	3.0	5.8	9.7	9.8	11.1	10.1	5.4	3.5	3.1	3.3	22.6
CV	2.1	1.2	1.1	0.0	0.5	0.5	0.6	0.6	0.7	0.7	1.0	1.4	0.2
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

683.

NOTA: VALORES NEGATIVOS INDIKAN DATOS DESCORRECCIOS

PRECIPITACIONES (MM)

 ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 18 LAJA RIEGO
 LAT 3716 LON 7241

AND	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1961	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	11.0	-1.0	-1.0
1962	1.0	0.0	6.0	131.5	38.5	319.5	20.0	107.0	44.0	22.0	4.0	4.5	698.0
1963	0.0	18.0	38.0	93.0	138.0	338.0	266.0	353.0	133.0	62.5	69.0	4.0	1512.5
1964	11.0	13.5	4.0	17.5	49.0	63.0	111.0	113.0	27.0	8.0	84.0	-1.0	-1.0
1965	17.0	57.0	10.0	151.0	62.0	190.0	240.0	228.0	20.0	32.0	43.0	-1.0	-1.0
1966	0.0	-1.0	10.0	56.0	85.0	347.0	211.0	37.0	-1.0	-1.0	-1.0	78.0	-1.0
1967	15.0	11.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
MIN	0.0	0.0	4.0	17.5	38.5	63.0	20.0	37.0	20.0	8.0	4.0	4.0	698.0
MAX	17.0	57.0	38.0	151.0	138.0	347.0	266.0	353.0	133.0	62.5	84.0	78.0	1512.5
PROM	7.3	19.9	13.6	89.8	74.5	251.5	169.6	167.6	56.0	31.1	42.2	28.8	1105.3
DESV	7.9	21.8	13.9	54.5	39.5	123.0	102.2	124.2	52.3	23.1	35.0	42.6	575.9
CV	1.1	1.1	1.0	0.6	0.5	0.5	0.6	0.7	0.9	0.7	0.8	1.5	0.5

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO
EST 22 POLCURA EN BALSEADER
LAT 3720 LON 7131

SUP 24262 (KM2)

685.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1959	0.0	42.6	96.9	614.7	311.7	371.7	470.4	184.0	303.5	60.8	20.5	0.0	2477.0
1960	69.6	0.0	80.4	100.5	121.3	634.2	331.1	128.0	152.9	212.0	33.4	20.4	1883.8
1961	136.6	15.6	111.9	29.4	138.0	230.4	433.0	383.1	497.2	113.8	3.5	2.0	2124.5
1962	7.3	0.0	37.2	30.6	117.1	382.6	46.8	272.0	11.7	96.4	40.4	0.0	1142.1
1963	0.0	20.0	52.6	82.0	225.0	294.9	444.9	528.5	242.2	188.0	153.0	27.0	2263.1
1964	8.0	0.0	25.0	40.2	176.0	233.5	205.5	341.4	104.5	70.0	90.0	210.0	1498.1
1965	84.3	30.0	14.7	330.0	352.2	279.7	464.4	488.5	95.6	263.2	183.3	251.1	2837.0
1966	0.0	17.5	32.3	132.6	174.6	558.6	374.9	281.8	101.9	143.2	50.0	390.2	2242.5
1967	192.4	60.2	74.7	33.6	264.3	133.7	217.2	188.6	188.4	197.4	101.2	48.4	1700.1
1968	0.4	99.0	96.9	77.6	73.0	100.1	140.7	190.3	138.4	100.8	133.9	77.2	1228.8
MIN	0.0	0.0	14.7	29.4	73.0	100.1	46.8	128.0	11.7	60.8	3.5	0.0	1142.1
MAX	192.4	99.0	111.9	614.7	352.2	634.2	470.4	528.5	497.2	263.2	183.3	390.2	2837.0
PROM	49.9	28.5	62.3	147.1	195.3	321.9	312.9	298.6	183.6	144.6	80.9	102.6	1939.7
DESV	69.0	31.6	34.3	187.2	90.9	171.0	150.9	135.4	137.2	67.5	61.0	134.8	549.9
CV	1.4	1.1	0.6	1.3	0.5	0.5	0.5	0.5	0.7	0.5	0.8	1.3	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 23 ANTUCCO
 LAT 3720 LON 7140 ALT 602 (MTS)

686.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1942	1.0	35.0	50.0	74.0	161.0	144.0	230.0	507.0	117.0	50.0	69.0	15.0	1453.0
1943	0.0	6.0	140.0	7.0	215.0	72.0	159.0	105.0	307.0	3.0	15.0	0.0	1029.0
1944	41.0	19.0	4.0	43.9	250.1	212.6	193.8	519.9	103.0	200.8	62.3	0.3	1650.7
1945	3.1	116.1	95.1	72.5	421.3	202.0	338.7	254.9	167.0	51.8	142.7	42.8	1908.0
1946	59.8	77.0	45.2	104.1	240.4	129.9	193.1	85.6	224.1	67.2	177.3	15.2	1419.2
1947	6.5	0.0	19.7	19.5	39.6	278.3	92.6	114.7	137.6	82.0	22.3	63.1	875.9
1948	34.0	0.0	1.2	242.5	111.0	242.2	405.8	70.9	314.0	82.6	2.3	123.0	1629.5
1949	5.0	79.7	82.6	19.1	409.9	352.4	59.0	76.2	35.0	0.0	17.0	182.5	1318.4
1950	0.0	31.0	38.9	260.8	457.0	336.3	83.9	358.2	181.0	73.0	202.6	24.4	2047.1
1951	170.0	35.0	31.0	16.5	334.2	434.1	426.5	180.0	155.5	59.5	99.7	26.4	1968.4
1952	0.0	58.0	151.7	4.0	185.0	156.2	211.6	105.1	76.5	70.5	30.6	16.0	1065.2
1953	168.1	35.0	36.8	141.1	533.5	213.6	280.7	336.1	332.6	86.0	25.0	32.6	2221.1
1954	15.5	32.6	0.0	148.3	207.2	244.7	234.7	100.6	83.6	42.2	20.2	27.8	1257.4
1955	13.6	31.3	0.0	51.6	83.1	237.7	19.0	171.2	43.2	14.3	0.0	147.2	812.2
1956	121.6	24.3	148.0	110.5	182.6	71.0	280.1	119.4	53.3	77.9	52.6	22.1	1263.4
1957	22.5	0.0	0.0	59.3	251.6	125.9	285.5	240.5	80.0	20.6	11.5	44.3	1141.7
1958	0.0	27.3	13.9	43.8	316.4	341.0	189.1	243.2	145.6	13.6	128.7	0.0	1462.6
1959	82.8	24.7	192.0	591.3	139.9	287.9	302.4	129.0	140.4	140.7	16.0	3.0	2050.1
1960	73.8	0.0	23.5	70.7	61.9	366.0	173.7	44.4	72.2	101.8	20.5	14.1	1022.6
1961	93.2	1.5	27.3	28.7	53.5	112.7	216.5	154.8	316.2	79.4	0.0	0.0	1083.8
1962	25.5	0.0	21.8	44.3	46.7	318.1	6.0	143.5	120.5	17.5	16.1	0.0	760.0
1963	0.8	0.6	0.8	32.2	69.9	27.7	523.3	378.5	179.9	114.3	129.6	13.6	1471.2
1964	61.6	29.4	20.9	39.6	113.3	14.5	144.9	207.2	73.1	24.8	66.1	112.9	908.3
1965	23.4	61.7	10.9	211.2	145.1	360.1	429.2	387.4	71.5	105.6	197.4	156.6	2160.1
1966	-1.0	0.0	-1.0	70.7	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	202.0	-1.0
1967	87.0	19.0	47.0	16.0	246.0	127.0	141.0	149.0	165.0	75.2	75.0	42.0	1189.2
1968	0.0	122.0	-1.0	89.0	44.0	-1.0	92.0	152.0	143.0	77.0	-1.0	120.0	-1.0
MIN	0.0	0.0	0.0	4.0	39.6	14.5	6.0	44.4	35.0	0.0	0.0	0.0	760.0
MAX	170.0	122.0	192.0	591.3	533.5	434.1	523.3	519.9	332.6	200.8	202.6	202.0	2221.1
PROM	42.7	32.1	48.1	96.7	208.4	216.3	219.7	205.2	147.6	66.6	64.0	53.6	1406.7
DESV	51.2	34.1	55.1	120.7	139.9	115.8	131.0	132.7	87.5	45.3	64.0	61.8	443.5
CV	1.2	1.1	1.1	1.2	0.7	0.5	0.6	0.6	0.6	0.7	1.0	1.2	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA: 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 24 TUCAPEL RETEN
 LAT 3720 LON 7159

687.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1948	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	67.9	235.7	106.0	3.4	98.4	-1.0
1949	0.0	54.8	83.2	25.4	477.3	432.4	63.3	73.4	22.5	3.1	30.1	110.9	1376.4
1950	0.0	0.0	61.6	242.2	426.2	305.9	105.7	386.8	180.6	51.3	85.4	0.0	1845.7
1951	148.6	20.4	8.8	4.1	338.6	338.9	410.8	150.2	122.1	-1.0	-1.0	-1.0	-1.0
1952	-1.0	43.6	-1.0	7.2	150.7	149.1	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1953	142.5	0.5	22.0	133.5	335.3	144.8	248.7	242.8	-1.0	-1.0	25.4	-1.0	-1.0
1954	7.2	32.6	0.0	84.1	267.7	185.2	155.6	140.9	6.5	10.5	0.0	47.6	937.9
1955	10.3	48.9	0.0	107.5	124.4	228.0	45.7	133.3	30.3	10.5	2.5	99.4	840.8
1956	101.0	10.5	146.3	122.6	167.6	95.1	262.4	126.4	65.3	56.0	4.6	2.0	1159.8
1957	7.0	0.0	0.0	69.0	229.0	131.6	206.9	179.0	116.0	74.0	24.0	44.3	1080.8
1958	2.0	0.0	16.0	112.0	289.6	317.4	205.0	216.0	173.0	31.0	128.0	0.0	1490.0
1959	37.0	22.0	61.4	406.0	208.4	322.0	430.0	164.0	210.0	83.0	21.0	0.0	1961.8
1960	32.0	0.0	32.0	33.0	13.0	290.0	98.0	75.0	35.0	68.0	4.3	22.4	702.7
1961	145.0	10.0	34.0	27.0	83.9	192.5	371.0	256.0	274.5	88.0	4.0	3.0	1488.9
1962	0.0	0.0	-1.0	96.0	76.0	-1.0	26.0	194.0	75.0	69.0	21.0	0.0	-1.0
1963	3.0	69.0	44.0	62.0	95.0	297.0	348.0	457.0	177.0	82.0	185.0	0.0	1779.0
1964	9.0	48.5	-1.0	34.0	-1.0	166.0	174.0	282.0	-1.0	-1.0	92.0	201.0	-1.0
1965	25.0	63.0	15.0	-1.0	-1.0	619.0	878.0	455.0	77.0	190.0	218.0	105.0	-1.0
1966	0.0	0.0	14.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967	97.0	50.0	-1.0	23.0	305.0	154.0	199.0	-1.0	151.0	155.0	50.0	57.0	-1.0
1968	0.0	82.0	85.0	80.0	48.0	245.0	130.0	146.0	99.0	112.0	88.0	150.0	1265.0
MIN	0.0	0.0	0.0	4.1	13.0	95.1	26.0	67.9	6.5	3.1	0.0	0.0	702.7
MAX	148.6	82.0	146.3	406.0	477.3	619.0	878.0	457.0	274.5	190.0	218.0	201.0	1961.8
PROM	40.3	27.8	39.0	92.7	213.9	256.3	242.1	208.1	120.6	74.3	54.8	55.4	1327.4
DESV	55.5	27.5	40.2	97.4	135.6	127.6	200.3	120.4	79.5	50.8	65.6	62.1	404.7
CV	1.4	1.0	1.0	1.1	0.6	0.5	0.8	0.6	0.7	0.7	1.2	1.1	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM) —

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2) 688.

EST 28 LAGO LAJA

LAT 3722 LON 7122 ALT 1375 (MTS)

AND	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1962	25.6	0.0	49.2	54.0	90.9	224.4	44.6	407.6	91.0	64.0	68.2	13.2	1132.7
1963	38.6	27.7	38.5	133.7	132.6	255.1	417.7	542.9	227.1	239.8	150.4	2.4	2206.5
1964	0.0	0.0	51.1	123.4	323.8	304.3	189.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1965	-1.0	-1.0	-1.0	-1.0	474.5	529.2	342.8	249.5	10.3	187.6	238.5	376.9	-1.0
1966	0.0	32.6	67.7	180.5	276.8	322.6	444.8	275.9	125.3	201.9	77.4	508.3	2513.8
1967	314.1	40.6	86.8	65.7	-1.0	41.5	74.5	317.3	63.2	287.9	85.4	80.5	-1.0
1968	0.0	109.8	120.5	114.6	99.7	134.8	195.3	214.9	178.5	111.5	170.1	340.8	1790.5
MIN	0.0	0.0	38.5	54.0	90.9	41.5	44.6	214.9	10.3	64.0	68.2	2.4	1132.7
MAX	314.1	109.8	120.5	180.5	474.5	529.2	444.8	542.9	227.1	287.9	238.5	508.3	2513.8
PROM	63.0	35.1	69.0	112.0	233.0	258.8	244.1	334.7	115.9	182.1	131.7	220.3	1910.9
DESV	124.1	40.3	30.4	46.5	152.7	154.4	160.3	121.7	78.6	82.3	66.9	215.4	597.5
CV	2.0	1.1	0.4	0.4	0.7	0.6	0.7	0.4	0.7	0.5	0.5	1.0	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

 ZONA 7 HOYA 313 BIOBIO SUP 24262 (KM2)
 EST 29 HUAQUI
 LAT 3723 LON 7222

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1964	29.5	5.5	7.0	20.0	91.5	106.5	123.5	147.5	57.0	31.0	41.5	246.0	906.5
1965	26.0	61.5	17.5	88.0	151.0	270.5	290.0	297.5	49.0	97.5	177.5	52.0	1728.0
1966	0.0	0.0	11.5	150.0	200.0	382.0	329.5	198.5	44.0	34.0	15.5	147.0	1472.0
1967	36.0	62.0	24.0	18.0	196.5	150.0	199.5	133.0	71.5	65.5	27.5	35.5	1019.0
1968	0.0	-1.0	-1.0	64.0	7.5	157.0	103.5	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
MIN	0.0	0.0	7.0	18.0	7.5	106.5	103.5	133.0	44.0	31.0	15.5	35.5	906.5
MAX	36.0	62.0	24.0	150.0	200.0	382.0	329.5	297.5	71.5	97.5	177.5	246.0	1728.0
PROM	18.3	32.3	15.0	68.0	129.3	213.2	209.2	194.1	55.4	57.0	65.5	120.1	1281.4
DESV	17.1	34.1	7.4	54.6	81.0	112.2	99.5	74.4	12.0	31.2	75.4	97.2	385.2
CV	0.9	1.1	0.5	0.8	0.6	0.5	0.5	0.4	0.2	0.5	1.2	0.8	0.3

689.

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

 ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 31 CENTRAL ABANICO
 LAT 3723 LON 7129 ALT 765 (MTS)

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1944	-1.0	-1.0	-1.0	-1.0	528.6	462.9	310.3	776.5	175.0	440.8	161.7	0.0	-1.0
1945	41.2	150.5	186.7	183.8	737.3	365.8	700.4	495.6	254.9	183.1	263.4	76.2	3638.9
1946	78.0	134.0	62.0	160.6	234.2	325.9	423.7	174.7	278.7	146.1	269.9	22.2	2310.0
1947	21.5	0.0	62.4	77.9	334.3	553.3	152.5	287.7	252.3	87.8	22.0	135.8	1987.5
1948	55.1	0.0	17.5	441.5	215.2	457.2	424.4	129.9	363.3	74.6	5.8	124.4	2308.9
1949	6.8	59.0	113.9	43.9	541.2	411.8	72.6	102.4	29.4	7.1	40.5	234.7	1663.3
1950	0.0	13.7	59.0	315.3	470.2	341.9	111.8	406.4	214.1	85.9	222.0	42.8	2283.1
1951	161.7	54.4	63.5	6.7	479.2	524.9	466.3	157.0	195.8	84.3	91.5	26.1	2327.4
1952	2.5	55.0	216.6	7.2	245.7	206.7	282.2	125.6	68.4	40.0	32.0	11.9	1293.8
1953	146.6	27.9	38.4	182.5	520.6	185.5	264.8	468.9	426.8	92.0	52.7	42.2	2448.9
1954	7.6	47.1	0.0	113.7	374.4	366.9	534.7	259.4	100.3	79.4	27.8	95.8	2007.1
1955	29.9	75.4	2.3	109.5	108.3	242.0	123.0	302.6	78.7	11.9	14.8	139.4	1237.8
1956	102.0	26.4	200.5	181.3	231.8	126.4	456.9	137.7	65.9	78.4	71.9	52.4	1731.6
MIN	0.0	0.0	0.0	6.7	108.3	126.4	72.6	102.4	29.4	7.1	5.8	0.0	1237.8
MAX	161.7	150.5	216.6	441.5	737.3	553.3	700.4	776.5	426.8	440.8	269.9	234.7	3638.9
PROM	54.4	53.6	85.2	152.0	386.2	351.6	332.6	294.2	192.6	108.6	98.2	77.2	2103.2
DESV	56.2	47.8	76.8	126.4	177.3	132.4	188.5	197.4	122.2	110.5	97.0	66.8	632.7
CV	1.0	0.9	0.9	0.8	0.5	0.4	0.6	0.7	0.6	1.0	1.0	0.9	0.3

690.

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO
EST 34 FUNDO HUMAN
LAT 3728 LON 7219 ALT 166 (MTS)

SUP 24262 (KM2)

691.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1942	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	98.0	61.0	-1.0	-1.0	-1.0
1943	0.0	0.0	155.0	45.0	263.0	107.0	208.0	192.0	176.0	0.0	20.0	0.0	1166.0
1944	12.0	26.0	13.0	17.0	205.0	258.0	123.0	-1.0	52.5	177.0	50.5	0.0	-1.0
1945	5.0	105.0	86.0	126.0	231.0	105.0	244.0	226.5	102.0	15.0	92.0	13.5	1351.0
1946	47.0	32.0	17.0	89.0	123.5	168.0	106.0	47.0	128.0	28.0	71.0	38.0	894.5
1947	7.0	0.0	55.5	39.5	92.5	227.0	83.0	72.0	112.5	70.5	32.5	36.5	828.5
1948	21.5	0.0	11.5	125.0	115.0	119.5	201.0	62.0	149.4	67.0	0.0	58.0	929.9
1949	0.0	46.0	83.0	42.0	346.5	262.5	38.5	42.0	15.0	3.5	10.0	59.0	948.0
1950	0.0	7.0	37.0	134.0	358.0	275.0	48.5	294.0	133.0	40.0	89.5	9.0	1425.0
1951	79.0	39.0	12.0	3.0	316.5	271.0	301.0	96.5	76.5	19.0	100.0	23.0	1336.5
1952	0.0	39.0	136.0	4.0	174.5	191.0	122.0	53.0	44.5	76.5	18.0	11.0	869.5
1953	113.0	16.0	28.0	118.0	277.5	100.9	231.0	241.0	188.0	44.5	20.0	25.0	1402.5
1954	0.0	28.5	2.5	139.0	158.5	200.0	321.5	178.0	52.0	48.0	17.0	33.0	1178.0
1955	18.0	43.0	0.0	63.0	93.0	159.0	44.0	187.0	41.5	7.5	4.0	91.5	751.5
1956	96.0	20.5	177.5	93.5	165.5	89.0	173.0	87.0	57.0	63.5	10.0	0.0	1032.5
1957	15.0	9.5	0.0	46.5	191.5	74.0	205.5	157.5	61.0	34.0	18.5	29.0	842.0
1958	18.0	0.0	9.5	55.5	357.0	385.9	88.9	195.5	100.0	13.3	88.5	3.5	1315.6
1959	59.0	10.0	83.0	343.5	160.2	185.2	266.8	131.1	124.8	134.8	2.2	0.0	1500.6
1960	72.1	0.0	43.8	19.7	60.0	379.8	92.8	66.0	88.9	88.3	18.7	9.8	939.9
1961	117.2	9.9	49.3	11.6	73.1	206.6	298.5	198.6	216.4	52.8	21.2	0.0	1255.2
1962	2.5	0.0	19.0	73.1	72.2	282.4	29.0	112.2	49.2	55.5	13.1	3.0	711.2
1963	1.0	24.0	19.0	48.0	82.0	238.0	313.0	358.0	128.0	91.0	67.0	9.0	1378.0
1964	25.0	10.0	15.0	18.0	104.0	141.0	135.0	146.0	64.0	32.0	50.0	203.0	943.0
1965	23.0	75.0	14.0	180.0	144.0	287.0	342.0	341.0	49.0	105.0	188.0	49.0	1797.0
MIN	0.0	0.0	0.0	3.0	60.0	74.0	29.0	42.0	15.0	0.0	0.0	0.0	711.2
MAX	117.2	105.0	177.5	343.5	358.0	385.9	342.0	358.0	216.4	177.0	188.0	203.0	1797.0
PROM	31.8	23.5	46.4	79.7	181.0	204.9	174.6	158.4	96.1	55.3	43.6	30.6	1127.1
DESV	38.3	26.3	51.0	75.9	97.0	87.8	101.4	93.3	51.7	42.6	45.0	44.6	286.2
CV	1.2	1.1	1.1	1.0	0.5	0.4	0.6	0.6	0.5	0.8	1.0	1.5	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
EST 36 LOS ANGELES DOS
LAT 3728. LON 7221 ALT 160 (MTS)

ANO ENE FEB MAR ABR MAY JUN JUL AG SEP OCT NOV DIC TOT

1968 0.0 35.0 18.0 51.0 15.0 142.0 68.0 72.0 98.0 62.0 70.0 88.0 719.0

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO

SUP 24262 (KM2)

693.

EST 37 LOS ANGELES

LAT 3728 LON 7221 ALT 160 (MTS)

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1918	-1.0	-1.0	30.0	167.0	172.9	179.9	166.9	127.5	112.0	19.4	275.0	13.8	-1.0
1919	6.0	28.9	20.0	187.5	480.2	293.1	331.5	114.8	148.2	29.3	104.0	11.5	1755.0
1920	0.0	0.0	52.6	49.5	447.2	143.8	55.4	170.2	142.4	69.2	67.0	9.7	1207.0
1921	33.7	33.1	55.6	106.7	389.0	147.8	57.4	139.9	32.5	40.5	11.8	83.3	1131.3
1922	41.8	4.1	158.4	13.1	72.4	330.5	437.7	206.5	101.3	63.0	3.5	0.0	1432.3
1923	3.7	55.7	61.5	8.1	25.5	290.8	137.8	276.0	43.9	121.3	70.1	37.1	1131.5
1924	0.0	35.5	107.9	12.1	75.0	197.2	156.8	50.8	57.0	13.2	3.7	5.0	714.2
1925	1.5	37.7	42.5	120.3	106.0	232.8	153.3	97.4	374.7	47.4	63.5	37.3	1314.4
1926	24.3	2.1	218.1	92.9	201.0	473.3	281.9	185.6	127.3	86.9	27.6	74.4	1795.4
1927	5.1	32.3	26.8	50.4	405.0	301.5	308.9	132.6	198.5	70.8	53.7	36.1	1621.7
1928	24.9	18.5	74.5	150.2	287.6	181.1	187.5	62.1	18.5	17.0	38.8	30.2	1090.9
1929	100.0	0.0	0.1	44.0	107.0	204.0	90.0	269.0	142.0	31.0	26.0	84.0	1097.1
1930	0.0	9.0	5.0	176.0	85.0	384.0	433.0	201.0	73.0	154.0	63.0	137.0	1720.0
1931	50.0	4.0	31.0	105.0	75.0	383.0	245.0	171.0	52.0	87.0	34.0	5.0	1242.0
1932	4.0	6.0	22.0	166.0	13.0	488.0	292.0	227.0	88.0	108.0	13.0	41.0	1468.0
1933	79.0	4.0	26.0	139.0	169.0	236.0	158.0	239.0	64.0	48.0	1.0	32.0	1195.0
1934	0.0	19.0	39.0	2.0	249.0	546.0	129.0	63.0	40.0	59.0	4.0	4.0	1154.0
1935	58.0	91.0	30.0	27.0	318.0	254.0	120.0	181.0	82.0	53.0	112.0	20.0	1346.0
1936	12.0	4.0	66.0	134.0	458.0	242.0	191.0	186.0	71.0	44.0	24.0	46.0	1478.0
1937	0.0	83.0	8.0	46.0	130.0	145.0	201.0	490.0	64.0	13.0	33.0	27.0	1240.0
1938	9.0	0.0	94.0	19.0	120.0	179.0	158.0	53.0	67.0	78.0	80.0	1.0	858.0
1939	30.0	64.0	4.0	12.0	307.0	189.0	98.0	299.0	109.0	176.0	0.4	11.0	1299.4
1940	5.0	80.0	39.0	192.0	450.0	301.0	370.0	35.0	88.0	66.0	121.0	25.0	1772.0
1941	0.0	5.0	28.0	57.0	197.0	240.0	507.0	236.0	17.0	16.0	217.0	36.0	1556.0
1942	0.0	16.0	27.0	59.0	165.0	88.0	238.0	351.0	111.0	45.0	40.0	0.3	1140.3
1943	0.0	0.0	106.0	30.0	284.0	76.0	153.0	169.0	191.0	16.0	12.0	0.0	1037.0
1944	12.0	22.0	10.0	35.3	229.7	262.2	115.4	386.8	57.4	122.4	40.4	0.0	1293.6
1945	0.1	158.0	48.5	122.8	230.4	92.2	249.4	180.1	114.8	11.9	85.8	10.8	1304.8
1946	35.7	19.7	10.8	87.7	208.6	171.2	165.6	74.9	129.8	41.8	99.8	56.4	1102.0
1947	7.3	0.4	77.4	38.6	137.1	175.0	95.9	131.8	155.7	59.7	31.8	61.1	1071.8
1948	8.5	0.0	17.7	153.2	197.1	171.9	263.4	84.4	244.6	54.6	0.5	80.8	1276.7
1949	0.0	62.5	78.1	28.6	395.2	342.6	38.9	44.8	14.1	5.9	31.9	61.8	1104.4
1950	0.0	0.0	29.2	153.5	357.7	301.2	68.0	353.5	189.8	72.5	93.2	8.6	1627.2
1951	83.1	14.0	13.5	0.8	427.9	524.2	371.4	121.4	112.6	40.7	89.0	12.8	1811.4
1952	0.0	19.0	141.0	4.1	252.5	275.3	168.8	82.2	78.3	126.7	34.1	0.0	1182.0
1953	99.5	7.0	49.0	74.4	435.3	110.1	354.3	332.2	356.1	38.5	16.6	31.0	1904.0
1954	0.0	43.8	0.0	171.6	223.6	304.8	481.2	216.9	55.0	44.3	10.0	21.2	1572.4
1955	19.6	73.6	3.0	67.0	147.3	178.0	53.5	234.5	31.2	7.5	1.5	75.2	891.9
1956	92.9	28.6	151.3	83.5	106.5	107.7	153.5	98.5	69.0	66.4	7.1	1.7	966.7
1957	14.7	0.0	6.1	48.6	215.0	71.0	290.7	179.9	47.0	31.6	23.0	36.2	963.8
1958	18.1	1.5	11.7	56.0	316.8	302.9	162.1	211.1	96.5	11.4	79.5	0.0	1267.6
1959	43.6	6.1	66.2	419.9	158.8	191.2	324.5	159.4	155.5	146.3	2.7	0.0	1674.2
1960	90.8	0.0	53.3	34.8	70.1	463.9	240.8	87.9	96.7	117.1	17.0	6.2	1278.6
1961	137.1	10.8	76.7	13.5	79.4	285.0	399.9	273.4	257.4	68.6	3.6	0.0	1606.2
1962	0.0	0.0	21.7	70.4	67.5	255.1	30.4	121.9	41.2	58.3	15.0	2.0	683.5
1963	0.0	35.0	36.1	70.0	84.0	269.3	331.3	391.6	154.0	88.4	71.6	13.2	1544.5
1964	30.0	8.0	11.0	21.0	108.0	108.0	135.0	160.0	66.0	24.0	64.0	236.0	971.0
1965	18.0	60.0	15.0	151.0	130.0	304.0	288.0	339.0	46.0	113.0	202.0	46.0	1712.0
1966	0.0	0.0	13.0	196.0	120.0	405.0	346.0	207.0	47.0	46.0	18.0	151.0	1549.0
1967	40.0	69.0	15.0	21.0	253.0	137.0	252.0	133.0	76.0	79.0	20.0	19.0	1114.0

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1968	3.0	29.0	23.0	62.0	10.0	161.0	83.0	82.0	111.0	58.0	70.0	86.0	778.0
MIN	0.0	0.0	0.0	0.8	10.0	71.0	30.4	35.0	14.1	5.9	0.4	0.0	683.5
MAX	137.1	158.0	218.1	419.9	480.2	546.0	507.0	490.0	374.7	176.0	275.0	236.0	1904.0
PROM	24.8	26.0	46.1	85.3	210.8	250.9	218.1	184.7	106.2	60.9	51.5	35.8	1301.0
DESV	33.9	32.2	45.7	76.1	131.8	117.0	122.0	103.0	76.7	40.6	56.9	45.0	306.0
CV	1.4	1.2	1.0	0.9	0.6	0.5	0.6	0.6	0.7	0.7	1.1	1.3	0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 39 SANTA FE
 LAT 3728 LON 7237 ALT 77 (MTS)

695.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1920	0.0	0.0	64.2	46.2	300.7	156.2	58.4	129.8	82.8	74.9	51.8	13.5	978.5
1921	11.5	28.8	20.5	71.5	332.0	141.8	35.0	103.9	14.2	45.7	5.0	88.5	898.4
1922	53.0	0.0	132.5	12.0	71.5	307.0	388.8	179.8	93.2	44.5	0.0	0.0	1282.3
1923	0.0	47.0	43.5	0.0	12.4	217.3	150.7	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1944	14.0	16.0	5.0	15.0	165.3	291.4	106.0	374.0	175.0	68.0	15.0	0.0	1087.2
1945	0.0	118.0	43.0	83.0	463.5	127.0	213.5	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	2.8	62.5	72.5	4.5	-1.0
1964	56.5	21.0	3.5	27.5	81.5	82.0	114.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1965	49.0	54.0	16.0	166.0	116.0	224.0	222.0	274.0	22.5	4.5	100.0	33.5	1281.5
1966	0.0	0.0	4.5	152.0	72.0	391.0	279.0	100.0	20.5	3.0	2.5	35.5	1060.0
1967	21.5	0.0	8.0	0.0	330.0	111.5	278.0	96.0	54.0	20.0	17.0	8.5	944.5
1968	19.0	10.0	13.0	24.0	16.0	165.0	70.8	78.7	82.2	51.3	63.7	73.0	666.7
MIN	0.0	0.0	3.5	0.0	12.4	82.0	35.0	78.7	2.8	3.0	0.0	0.0	666.7
MAX	56.5	118.0	132.5	166.0	463.5	391.0	388.8	374.0	175.0	74.9	100.0	88.5	1282.3
PROM	20.4	26.8	32.2	54.3	178.3	201.3	174.2	167.0	60.8	41.6	36.4	28.6	1024.9
DESV	22.3	35.7	38.7	58.4	152.6	95.3	111.3	105.0	54.4	26.7	36.4	32.6	203.6
CV	1.1	1.3	1.2	1.1	0.9	0.5	0.6	0.6	0.9	0.6	1.0	1.1	0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

 ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 41 PUQUECO EN LOS ANGELES
 LAT 3729 LON 7226 ALT 130 (MTS)

 ANO ENE FEB MAR ABR MAY JUN JUL AG SEP OCT NOV DIC TOT

 1962 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 34.9 119.4 39.4 52.5 14.0 4.5 -1.0
 1963 1.0 25.1 30.1 70.0 78.0 198.0 268.3 399.3 141.0 -1.0 77.5 7.0 -1.0
 1964 40.0 -1.0 -1.0 19.0 -1.0 -1.0 109.0 163.0 66.5 26.0 34.0 246.0 -1.0
 1965 22.0 48.5 7.0 171.5 102.5 283.0 263.0 305.0 46.0 -1.0 -1.0 -1.0 -1.0

696.

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*****
PRECIPITACIONES (MM)
*****
ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
EST 42 FUNDO CUNIBAL
LAT 3730 LON 7217
*****
ANO ENE FEB MAR ABR MAY JUN JUL AG SEP OCT NOV DIC TOT
*****
1932 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 238.0 200.0 72.0 105.0 24.0 91.0 -1.0
1933 61.0 6.0 41.0 136.0 166.0 241.0 163.0 246.0 74.0 64.0 10.0 0.0 1208.0
1934 4.0 25.0 88.0 24.0 216.0 505.0 101.0 57.0 40.0 69.0 3.0 8.0 1140.0
1935 42.0 130.0 25.0 35.0 254.0 219.0 75.0 153.0 119.0 37.0 113.0 9.0 1211.0
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PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO
EST 43 NACIMIENTO
LAT 3730 LON 7241 ALT 57 (MTS)

SUP 24262 (KM2)

698.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1913	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	112.2	110.2	6.5	-1.0	-1.0	-1.0
1914	-1.0	-1.0	26.6	67.7	246.0	573.0	570.0	177.0	177.0	51.0	45.0	29.0	-1.0
1915	1.0	13.0	26.5	208.5	489.0	125.4	252.5	87.0	50.5	35.0	7.0	6.0	1301.4
1916	12.0	6.0	127.0	90.5	132.5	38.5	46.5	196.5	145.0	15.0	117.5	58.5	985.5
1917	12.0	26.0	17.0	18.0	152.0	286.5	56.0	124.0	244.0	25.5	4.0	1.1	966.1
1918	12.0	0.0	11.0	130.5	169.8	162.0	211.8	167.8	88.0	28.7	203.4	2.0	1187.0
1919	14.2	24.3	26.0	182.5	621.0	194.9	385.8	121.5	128.1	20.0	91.7	13.8	1823.8
1920	0.0	0.0	59.3	59.1	377.7	189.3	84.7	178.2	93.0	53.0	48.0	5.0	1147.3
1921	28.5	38.2	40.5	92.5	428.0	185.0	45.8	163.0	23.5	50.0	0.0	80.5	1155.5
1922	56.5	7.0	114.5	24.5	83.5	353.0	371.5	201.5	104.5	47.0	0.0	0.0	1363.5
1923	0.0	51.5	50.0	0.0	9.5	275.0	199.0	327.0	23.0	90.5	68.5	22.3	1116.3
1924	0.0	28.4	78.5	23.5	85.0	210.0	106.0	92.0	30.0	14.0	1.6	5.6	674.6
1925	0.0	39.2	12.0	78.0	90.5	269.5	129.0	92.0	353.0	27.0	41.0	21.5	1152.7
1926	12.0	0.0	124.0	71.0	97.5	256.0	151.5	203.0	127.0	21.5	12.0	64.0	1139.5
1927	0.0	0.0	9.0	25.3	294.2	320.0	351.8	113.8	205.8	87.0	37.5	27.0	1471.4
1928	8.1	21.5	113.5	155.9	315.6	188.5	171.6	79.6	14.4	10.0	14.8	40.0	1133.5
1929	71.0	0.0	0.0	20.0	98.0	283.0	91.0	286.0	130.0	23.0	10.0	48.0	1060.0
1930	0.0	4.0	19.0	309.0	94.0	420.0	338.0	155.0	42.0	129.0	117.0	117.0	1744.0
1931	72.0	11.0	30.0	60.0	84.0	478.0	336.0	195.0	48.0	56.0	0.0	0.0	1370.0
1932	0.0	0.0	0.0	256.0	24.0	496.0	334.0	213.0	71.0	114.5	18.7	67.3	1594.5
1933	86.0	4.0	13.0	96.0	127.0	210.0	124.0	175.0	73.0	91.0	0.0	16.0	1015.0
1934	0.0	0.0	29.0	6.0	257.0	550.0	145.0	93.0	74.0	48.0	10.0	6.0	1218.0
1935	25.9	22.5	22.0	21.0	265.0	204.0	105.0	252.0	109.0	80.0	98.0	15.0	1219.4
1936	19.0	-11.0	35.0	125.0	393.0	201.0	212.0	200.0	63.0	19.0	0.0	31.0	1309.0
1937	0.0	54.0	0.0	20.0	194.0	176.0	267.0	393.0	35.0	11.0	16.8	11.5	1178.3
1938	0.0	0.0	113.8	31.0	150.0	175.0	339.0	69.0	40.0	46.0	48.0	0.0	1011.8
1939	26.0	36.0	2.0	0.0	288.0	205.0	57.0	283.0	65.0	200.0	0.0	10.0	1172.0
1940	0.0	64.0	12.0	94.0	265.0	276.0	373.0	8.0	88.0	75.0	34.0	21.0	1310.0
1941	0.0	56.0	19.0	95.0	124.0	216.0	417.0	161.0	10.0	42.0	113.0	21.0	1274.0
1942	0.0	6.0	4.0	37.0	73.0	92.0	201.0	233.0	57.0	19.0	25.0	0.0	747.0
1943	0.0	0.0	71.0	46.6	165.0	57.0	73.0	197.0	110.0	16.0	15.0	0.0	750.6
1944	5.0	14.0	0.0	22.0	182.0	206.0	37.0	387.0	20.0	76.5	28.7	0.0	978.2
1945	9.5	80.0	29.0	80.0	331.5	105.0	185.0	162.5	81.5	17.0	70.0	3.0	1154.0
1946	46.0	22.0	2.0	46.5	222.5	193.5	144.0	53.5	117.0	24.0	56.5	48.0	975.5
1947	20.0	12.0	30.0	33.5	126.5	523.0	236.0	124.0	175.0	97.5	18.0	16.5	1412.0
1948	35.0	0.0	8.0	160.0	272.0	233.0	332.5	87.5	275.5	76.0	0.0	42.5	1522.0
1949	0.0	28.5	90.0	63.0	679.5	511.5	77.0	38.0	9.0	0.0	5.0	49.0	1550.5
1950	0.0	0.0	26.0	168.0	582.0	315.5	49.0	409.0	138.0	87.0	150.5	10.5	1935.5
1951	47.0	23.5	0.0	7.0	444.5	585.0	211.0	82.5	78.5	10.0	106.0	29.0	1624.0
1952	0.0	6.5	69.5	0.0	280.5	245.0	202.5	85.5	34.5	105.0	21.0	0.0	1050.0
1953	92.0	9.5	42.5	95.0	406.5	101.0	332.0	485.5	407.0	64.5	16.0	23.0	2074.5
1954	0.0	29.0	0.0	119.0	278.0	330.0	417.5	173.5	36.0	57.0	34.5	16.5	1491.0
1955	14.5	37.0	0.0	49.0	85.0	234.0	9.0	199.0	22.0	0.9	36.0	62.0	748.4
1956	64.0	17.0	106.5	97.5	148.5	102.5	274.5	127.5	49.5	69.5	14.0	0.0	1071.0
1957	20.0	0.0	0.0	81.0	420.5	85.0	210.5	230.5	75.5	38.0	0.0	48.0	1209.0
1958	7.0	0.0	8.5	72.5	341.5	267.5	213.0	245.0	162.5	8.5	53.0	5.5	1384.5
1959	106.5	0.0	57.5	476.0	176.0	230.5	359.5	166.5	120.5	136.5	0.0	4.5	1834.0
1960	112.5	0.0	91.5	11.0	59.5	444.5	206.5	95.0	80.5	101.5	8.5	0.0	1211.0
1961	80.0	10.5	106.0	6.0	200.2	395.5	524.0	391.5	360.0	42.0	0.0	0.0	2115.7
1962	0.0	0.0	22.5	149.5	83.0	355.0	29.0	119.5	48.0	71.0	11.1	0.0	888.6

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1963	22.0	12.5	58.5	70.5	79.3	262.0	252.0	492.0	152.5	97.5	105.5	8.0	1712.3
1964	43.0	5.0	7.0	19.0	144.0	181.0	174.0	236.0	55.5	34.0	72.0	124.0	1094.5
1965	17.0	76.0	22.0	238.0	114.0	348.0	397.0	415.0	36.0	82.0	147.7	44.0	1936.7
1966	0.0	0.0	1.3	97.0	103.0	254.0	281.0	144.0	16.0	29.0	16.4	94.9	936.6
1967	25.0	27.0	14.0	12.0	330.0	146.0	234.0	174.0	70.0	64.0	15.0	24.0	1135.0
1968	2.0	28.0	10.0	48.0	40.0	236.0	84.0	97.0	86.0	54.0	43.0	73.0	803.0
MIN	0.0	0.0	0.0	0.0	9.5	38.5	9.0	8.0	9.0	0.0	0.0	0.0	674.6
MAX	112.5	80.0	127.0	476.0	679.5	585.0	570.0	492.0	407.0	200.0	203.4	124.0	2115.7
PROM	22.7	17.8	36.5	84.8	224.1	264.6	218.5	188.8	100.7	53.5	40.5	26.7	1267.4
DESV	30.5	20.5	38.4	87.3	155.1	134.1	132.4	111.3	87.3	39.8	46.6	30.3	343.9
CV	1.3	1.2	1.1	1.0	0.7	0.5	0.6	0.6	0.9	0.7	1.2	1.1	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIOBIO SUP 24262 (KM2)
EST 45 SN GERARDO COLONIA
LAT 3732 LON 7151

ANO ENF FEB MAR ABR MAY JUN JUL AG SEP OCT NOV DIC TOI

1968 0.0 28.0 36.0 59.0 14.0 171.0 80.0 96.0 109.0 63.0 78.0 141.0 875.0

700.

PRECIPITACIONES (MM)

 ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 46 VILLACURA
 LAT 3732 LON 7151

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1958	18.0	3.0	11.0	102.0	417.0	337.0	169.0	233.0	192.0	34.0	120.0	0.0	1634.0
1959	102.0	26.0	86.0	498.0	239.0	319.0	394.0	216.0	204.0	151.0	6.6	0.0	2241.6
1960	88.0	0.0	61.0	41.0	103.0	411.0	326.0	144.0	121.0	183.0	23.0	34.0	1535.0
1961	138.0	17.0	29.0	78.0	105.0	232.0	322.0	249.0	326.0	116.0	18.0	0.0	1630.0
1962	6.0	0.0	42.0	73.0	122.0	389.0	58.0	275.0	112.0	56.0	23.0	4.0	1160.0
1963	11.0	44.0	46.0	82.0	116.0	263.7	349.0	509.0	196.0	133.0	91.0	21.0	1861.7
1964	40.0	45.0	16.0	34.0	164.0	244.0	181.0	267.0	121.0	50.0	98.0	286.0	1546.0
1965	63.0	51.0	26.0	201.0	242.0	354.0	575.0	352.0	62.0	81.0	339.0	140.0	2486.0
1966	1.9	2.8	24.0	152.0	164.0	338.0	344.0	259.0	88.0	121.0	83.0	296.0	1873.7
1967	149.0	85.0	32.0	63.0	374.0	143.0	101.0	122.0	102.0	129.0	52.0	61.0	1413.0
1968	4.0	18.0	73.0	77.0	41.0	139.0	123.0	158.0	186.0	114.0	24.0	201.0	1160.0
MIN	1.9	0.0	11.0	34.0	41.0	139.0	58.0	122.0	62.0	34.0	6.6	0.0	1160.0
MAX	149.0	85.0	86.0	498.0	417.0	411.0	575.0	509.0	326.0	183.0	339.0	296.0	2486.0
PROM	56.4	26.5	40.5	127.4	189.7	288.2	267.5	253.1	155.5	106.2	79.8	94.8	1685.5
DESV	55.2	27.1	24.0	132.0	117.9	91.9	154.6	107.7	74.7	45.9	94.2	116.6	411.2
CV	1.0	1.0	0.6	1.0	0.6	0.3	0.6	0.4	0.5	0.4	1.2	1.2	0.2

701.

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

 ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 47 VILLUCURA DINILHUE
 LAT 3732 LON 7151

 ANO ENE FEB MAR ABR MAY JUN JUL AG SEP OCT NOV DIC TOT

 1965 63.0 51.0 26.0 -1.0 242.0 354.0 575.0 352.0 62.0 176.0 207.0 130.0 -1.0
 1966 0.0 -1.0 30.0 217.0 190.0 374.0 335.0 285.0 71.0 112.0 39.0 275.0 -1.0
 1967 130.0 84.0 45.0 37.0 308.0 203.0 138.0 197.0 122.0 164.0 61.0 34.0 1523.0
 1968 0.0 58.0 85.0 62.0 46.0 221.0 160.0 141.0 199.0 98.0 113.0 193.0 1376.0

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO
 EST 48 DUQUECO EN CERRILLOS
 LAT 3733 LON 7218 ALT 130 (MTS)

SUP 24262 (KM2)

703.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1961	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	18.0	1.0	-1.0
1962	0.4	0.0	30.5	83.0	66.0	207.5	45.0	102.5	48.0	61.0	18.5	3.5	665.9
1963	3.5	33.0	31.0	71.0	63.5	269.5	262.5	-1.0	161.5	86.0	67.6	7.5	-1.0
1964	10.0	15.0	9.0	17.6	102.5	89.8	63.0	132.5	50.0	31.0	27.5	239.0	786.9
1965	22.5	3.5	12.0	132.5	125.5	226.0	238.5	255.5	-1.0	-1.0	-1.0	-1.0	-1.0
1966	0.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	0.0	156.0	-1.0
1967	38.5	66.0	21.5	32.0	243.5	145.0	259.5	106.5	68.0	69.0	33.5	30.5	1113.5
1968	3.5	36.5	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
MIN	0.0	0.0	9.0	17.6	63.5	89.8	45.0	102.5	48.0	31.0	0.0	1.0	665.9
MAX	38.5	66.0	31.0	132.5	243.5	269.5	262.5	255.5	161.5	86.0	67.6	239.0	1113.5
PROM	11.2	25.7	20.8	67.2	120.2	187.6	173.7	149.3	81.9	61.8	27.5	72.9	855.4
DESV	14.3	24.7	10.2	45.4	73.6	70.6	109.8	72.1	53.8	23.0	22.7	100.6	231.5
CV	1.3	1.0	0.5	0.7	0.6	0.4	0.6	0.5	0.7	0.4	0.8	1.4	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO
EST 49 HUACHI
LAT 3735 LON 7130

SUP 24262 (KM2)

704.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1958	-1.0	-1.0	-1.0	-1.0	363.3	453.8	247.3	303.4	208.5	35.3	133.8	0.0	-1.0
1959	77.0	37.4	120.3	609.0	284.3	385.0	456.3	278.6	265.6	179.2	21.6	4.8	2719.1
1960	106.3	0.0	50.3	79.0	108.9	515.8	345.9	154.7	176.0	263.6	30.7	49.6	1880.8
1961	208.4	28.2	54.0	80.6	130.2	289.2	458.1	316.4	388.9	128.4	19.0	2.2	2103.6
1962	9.5	0.0	61.3	81.2	117.8	404.6	57.2	290.0	144.1	84.7	50.1	17.2	1317.7
1963	8.7	35.4	51.8	130.2	145.2	421.4	447.5	573.4	242.4	173.4	133.1	19.3	2381.8
1964	62.2	62.2	35.3	64.2	202.7	294.8	253.3	379.2	164.0	81.9	132.5	366.7	2119.0
1965	85.7	100.8	21.5	246.0	337.0	476.9	207.0	371.1	132.3	210.2	270.0	208.7	2745.8
1966	0.0	5.8	33.3	233.2	206.3	564.7	431.0	423.3	100.0	158.7	49.8	386.3	2592.4
1967	187.0	122.0	78.0	38.0	449.0	243.0	229.0	302.0	190.0	256.0	95.0	61.0	2250.0
1968	2.0	94.0	80.0	77.0	68.0	289.0	163.0	183.0	220.0	131.0	137.0	254.0	1701.0
MIN	0.0	0.0	21.5	38.0	68.0	243.0	57.2	154.7	100.0	35.3	19.0	0.0	1317.7
MAX	208.4	122.0	120.3	609.0	449.0	564.7	458.1	573.4	388.9	263.6	270.0	386.3	2745.8
PROM	74.7	48.6	58.6	163.8	219.3	394.4	299.6	325.0	202.9	154.8	97.5	124.5	2181.1
DESV	75.5	44.3	28.6	171.6	122.8	104.9	136.7	114.0	78.6	72.0	74.9	151.0	459.3
CV	1.0	0.9	0.5	1.0	0.6	0.3	0.5	0.4	0.4	0.5	0.8	1.2	0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)---

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)

EST 50 EL TAMBILLO

LAT 3735 LON 7240

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1931	86.0	0.6	20.0	99.0	77.0	402.0	262.0	196.0	65.0	71.0	15.0	0.0	1293.6
1932	1.0	4.0	17.0	259.0	30.0	606.0	273.0	234.0	66.0	121.0	13.0	59.0	1683.0
1933	90.0	6.0	20.0	85.0	251.0	255.0	125.0	230.0	67.0	82.0	5.0	41.0	1257.0
1934	1.0	3.0	39.0	17.0	213.0	384.0	75.0	74.0	45.0	36.0	13.0	10.0	910.0
1935	14.0	55.0	22.0	13.0	253.0	289.0	156.0	234.0	124.0	81.0	91.0	19.0	1351.0
1936	19.0	12.0	51.0	132.0	410.0	194.0	212.0	203.0	59.0	37.0	19.0	19.0	1367.0
1937	0.0	51.0	0.0	31.0	192.0	168.0	240.0	379.0	41.0	14.0	13.0	5.0	1134.0
1938	1.0	0.0	130.0	23.0	168.0	217.0	219.0	52.0	49.0	47.0	86.0	0.0	992.0
1939	32.0	41.0	0.0	8.0	374.0	273.0	142.0	287.0	100.0	194.0	0.0	13.0	1464.0
1940	2.0	75.0	19.0	126.0	337.0	487.0	482.0	36.0	88.0	83.0	48.0	24.0	1807.0
1941	0.0	68.0	27.0	108.0	214.0	281.0	583.0	221.0	14.0	55.0	165.0	36.0	1772.0
1942	0.0	9.0	12.0	64.0	93.0	101.0	281.0	330.0	93.0	31.0	40.0	0.0	1054.0
1943	0.0	0.0	80.0	40.0	210.0	90.0	147.0	158.0	163.0	18.0	17.0	0.0	923.0
1944	6.0	7.0	0.0	19.0	198.8	212.4	107.9	315.8	20.5	98.6	21.9	0.0	1007.9
1945	3.2	44.5	29.1	96.2	190.1	110.6	178.9	165.8	98.6	11.6	67.0	4.1	999.7
1946	35.1	20.2	6.6	43.3	245.6	221.7	173.6	56.5	133.2	28.3	49.4	60.0	1073.5
1947	13.6	2.3	19.6	28.9	115.2	461.4	130.4	81.6	131.9	86.5	16.3	7.3	1095.0
1948	21.4	0.0	15.3	97.8	215.9	163.3	239.0	77.3	195.9	58.6	0.0	43.4	1127.9
1949	0.0	26.7	62.0	28.1	388.2	317.2	64.3	23.4	7.9	4.3	2.4	56.3	980.8
1950	0.0	0.0	21.3	112.0	469.8	292.4	52.9	315.7	125.4	39.6	109.6	0.3	1539.0
1951	47.5	17.6	0.0	5.4	403.7	325.5	329.8	68.1	60.8	19.5	77.9	26.3	1382.1
1952	0.0	3.9	73.5	3.4	213.1	179.0	126.7	68.5	37.4	69.1	16.5	0.0	791.1
1953	80.4	8.8	49.4	106.3	309.8	85.7	282.2	314.7	258.5	26.3	15.3	22.7	1560.1
1954	0.0	30.4	0.0	117.4	231.3	263.1	333.5	140.8	35.6	57.9	14.6	16.5	1241.1
1955	32.0	41.4	2.2	52.8	95.1	182.4	30.4	169.8	10.8	3.0	1.4	53.7	675.0
1956	52.4	14.2	75.4	86.1	139.8	96.2	200.6	76.4	55.7	56.2	2.7	0.5	856.2
1957	18.5	0.0	0.0	74.5	358.0	90.5	331.5	179.5	68.0	31.7	11.4	54.5	1218.1
1958	12.2	2.7	8.0	63.7	418.5	227.2	239.0	171.6	133.8	5.9	46.4	2.6	1331.6
1959	77.5	1.7	78.6	344.2	147.4	194.2	342.0	132.2	115.4	102.5	0.0	0.0	1535.7
1960	109.7	0.0	40.0	10.9	57.5	386.7	190.0	73.6	43.1	80.9	7.0	1.8	1001.2
1961	85.8	2.1	113.9	9.6	144.2	280.8	377.3	247.0	229.8	33.9	12.3	0.0	1537.5
1962	0.0	0.0	17.4	111.8	76.9	324.1	31.8	132.9	40.0	65.0	9.4	6.2	816.3
1963	2.5	19.4	65.3	78.0	62.2	201.6	252.2	469.0	148.1	63.3	75.5	9.3	1446.4
1964	37.0	7.0	2.0	30.0	105.0	139.0	117.0	192.0	50.0	26.0	55.0	144.0	904.0
1965	17.0	76.0	22.0	238.0	114.0	348.0	397.0	415.0	36.0	82.0	-1.0	44.0	-1.0
1966	0.0	0.0	14.0	198.0	118.0	454.0	323.0	211.0	21.0	26.0	27.0	88.0	1480.0
1967	19.0	29.0	13.0	11.0	272.0	132.0	242.0	128.0	73.0	51.0	20.0	18.0	1008.0
1968	0.0	20.0	11.0	46.0	21.0	192.0	69.0	114.0	109.0	62.0	47.0	83.0	775.0
MIN	0.0	0.0	0.0	3.4	21.0	85.7	30.4	23.4	7.9	3.0	0.0	0.0	675.0
MAX	109.7	76.0	130.0	344.2	469.8	606.0	583.0	469.0	258.5	194.0	165.0	144.0	1807.0
PROM	24.1	18.4	31.0	79.4	208.8	253.4	220.0	183.5	84.6	54.2	33.3	25.5	1199.8
DESV	31.7	22.6	32.7	76.0	120.0	124.0	124.2	110.6	59.5	37.8	36.7	31.7	296.5
CV	1.3	1.2	1.1	1.0	0.6	0.5	0.6	0.6	0.7	0.7	1.1	1.2	0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2) 706.

EST 51 SAN JOSE DE MUNILQUE

LAT 3737 LON 7219 ALT 125 (MTS)

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1955	-1.0	-1.0	-1.0	-1.0	135.0	184.0	38.0	140.0	15.5	4.5	5.0	90.0	-1.0
1956	116.0	26.0	173.0	89.5	173.0	152.0	225.5	80.5	60.0	68.0	7.5	5.5	1176.5
1957	15.0	0.0	4.0	55.5	215.5	109.5	258.0	197.0	50.5	45.0	32.0	41.0	1023.0
1958	8.0	5.0	10.0	88.0	395.0	258.0	192.0	219.0	153.5	13.5	90.0	0.0	1432.0
1959	72.0	9.0	84.0	275.5	90.0	185.0	314.0	141.0	128.0	41.0	0.0	0.0	1339.5
1960	59.0	0.0	76.0	0.0	84.0	359.0	186.0	68.0	69.0	104.0	5.0	11.0	1011.1
1961	92.0	2.0	60.0	8.0	16.0	227.0	295.0	-1.0	-1.0	53.0	16.0	0.0	-1.0
1962	0.0	0.0	12.0	78.0	74.0	283.0	35.5	105.5	34.5	47.5	14.5	1.5	686.0
1963	14.5	38.5	27.0	83.0	88.5	206.0	247.0	374.5	144.0	86.0	66.5	6.5	1382.0
1964	52.5	13.0	9.5	25.5	108.5	99.5	100.0	135.0	42.5	30.5	55.0	219.0	890.5
1965	24.5	46.0	20.0	178.0	130.0	257.0	291.5	303.0	48.5	90.0	146.0	51.0	1585.5
1966	0.0	0.0	15.0	172.0	90.5	266.5	285.0	329.0	48.0	59.0	18.8	115.5	1399.3
1967	27.0	55.5	13.5	20.0	181.5	130.5	201.5	102.5	56.0	55.5	32.0	44.0	919.5
1968	1.0	36.5	75.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
MIN	0.0	0.0	4.0	0.0	16.0	99.5	35.5	68.0	15.5	4.5	0.0	0.0	686.0
MAX	116.0	55.5	173.0	275.5	395.0	359.0	314.0	374.5	153.5	104.0	146.0	219.0	1585.5
PROM	37.0	17.8	44.5	89.4	137.0	209.0	205.3	182.9	70.8	53.7	37.6	45.0	1167.7
DESV	38.0	20.1	48.4	82.1	93.5	75.7	94.4	102.7	45.1	28.8	42.3	64.2	281.0
CV	1.0	1.1	1.1	0.9	0.7	0.4	0.5	0.6	0.6	0.5	1.1	1.4	0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DE SCNOCIDOS

PRECIPITACIONES (MM)

 ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2) 707.
 EST 52 SANTA BARBARA
 LAT 3740 LON 7202

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1959	-1.0	-1.0	-1.0	-1.0	188.9	231.9	176.0	132.4	156.8	138.7	6.5	4.0	-1.0
1960	78.8	0.0	51.6	68.1	99.0	390.4	267.1	110.2	107.1	124.9	23.4	53.6	1374.2
1961	159.0	7.1	49.9	34.1	81.2	103.8	156.0	240.2	228.4	99.2	16.9	0.0	1175.8
1962	3.1	0.0	39.1	73.6	105.5	346.7	41.8	174.9	67.6	40.9	11.3	0.0	904.5
1963	19.5	43.7	44.3	95.9	92.1	285.6	357.8	521.2	180.9	136.5	87.5	9.4	1874.4
1964	62.8	26.0	10.5	30.3	183.1	171.3	135.1	248.1	103.4	61.2	86.6	361.4	1478.8
1965	45.2	71.0	21.3	191.5	197.7	332.0	394.2	323.5	84.8	153.4	204.7	81.4	2100.7
1966	0.0	0.4	44.2	214.4	163.6	445.0	338.9	227.6	67.2	143.9	29.6	205.7	1880.5
1967	88.0	80.0	31.0	44.0	282.0	158.0	214.0	216.0	124.0	122.0	-1.0	36.0	-1.0
1968	2.0	65.0	41.0	78.0	37.0	208.0	114.0	62.0	171.0	104.0	88.0	166.0	1137.0
MIN	0.0	0.0	10.5	30.3	37.0	103.8	41.8	62.0	67.2	40.9	6.5	0.0	904.5
MAX	159.0	80.0	51.6	214.4	282.0	445.0	394.2	521.2	228.4	153.4	204.7	361.4	2100.7
PROM	50.9	32.6	37.0	92.2	143.0	267.3	219.5	225.6	129.1	112.5	61.6	91.7	1490.7
DESV	52.8	33.1	13.6	66.6	72.6	110.7	116.4	128.7	53.6	36.8	63.8	118.9	423.1
CV	1.0	1.0	0.4	0.7	0.5	0.4	0.5	0.6	0.4	0.3	1.0	1.3	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

 ZONA 7 HOYA 313 BÍO BÍO SUP 24262 (KM2)
 EST 53 SAN LUIS DE MALVEN
 LAT 3740 LON 7225 ALT 15 (MTS)

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1935	-1.0	-1.0	-1.0	15.0	329.0	193.0	117.0	171.0	121.0	35.0	92.0	21.0	-1.0
1936	14.0	11.0	47.0	138.0	367.0	179.0	207.0	154.0	61.0	41.0	23.0	33.0	1275.0
1937	0.0	76.0	3.0	44.0	126.0	162.0	207.0	414.0	43.0	19.0	24.0	23.0	1141.0
1938	11.0	0.0	109.0	33.0	202.0	170.0	290.0	62.0	44.0	58.0	64.0	0.0	1043.0
1939	55.0	49.0	3.0	8.0	258.0	201.0	121.0	307.0	105.0	191.0	13.0	11.0	1322.0
1940	15.0	83.0	31.0	155.0	371.0	361.0	435.0	48.0	77.0	59.0	61.0	30.0	1726.0
1941	0.0	25.0	28.0	71.0	178.0	287.0	538.0	240.0	18.0	57.0	232.0	35.0	1709.0
1942	0.0	22.0	19.0	64.0	106.0	102.0	255.0	262.0	99.0	47.0	31.0	0.0	1007.0
1943	0.0	0.0	108.0	29.0	234.0	74.0	131.0	185.0	134.0	18.0	7.0	0.0	920.0
1944	8.0	31.0	3.0	14.0	212.2	87.1	95.5	400.8	45.4	127.6	38.4	0.0	1063.0
1945	1.2	106.0	44.7	89.4	367.9	117.7	195.9	194.2	139.8	9.7	70.7	20.3	1357.5
1946	39.8	29.1	5.8	44.0	235.5	192.9	172.2	59.7	140.7	24.3	64.7	78.2	1086.9
1947	14.5	0.0	29.0	37.4	147.6	604.3	150.5	104.9	136.7	73.0	30.0	26.3	1354.2
1948	13.8	0.3	11.3	141.4	204.1	186.3	322.8	90.1	413.0	94.7	3.9	123.7	1605.4
1949	0.0	45.9	92.1	32.1	443.1	509.1	93.0	59.9	14.5	0.0	10.0	43.0	1342.7
1950	0.0	0.0	31.8	155.5	569.6	603.5	308.1	451.8	261.6	132.6	276.5	10.5	2801.5
1951	77.0	24.6	2.5	0.3	356.2	436.1	293.1	84.4	137.8	22.4	97.6	18.5	1550.5
1952	0.0	25.9	89.8	1.5	186.9	201.3	145.0	78.4	38.8	86.1	22.9	0.0	876.6
1953	126.1	11.7	43.8	71.2	336.5	103.7	276.1	358.1	266.9	23.0	22.3	30.1	1669.5
1954	4.3	37.7	2.1	118.5	174.7	289.0	426.9	166.0	39.0	52.1	10.2	29.6	1350.1
1955	18.5	41.6	3.8	56.6	91.7	184.5	37.0	183.0	45.5	6.5	4.6	46.2	719.5
1956	79.9	17.2	166.5	107.1	198.5	126.0	196.0	83.8	66.3	72.0	3.0	2.0	1118.3
1957	24.4	0.0	0.0	48.7	216.4	87.5	242.3	181.7	72.8	31.2	13.6	34.6	953.2
1958	7.5	4.3	29.4	86.0	411.7	185.8	161.0	173.4	172.8	13.6	56.4	0.0	1301.9
1959	74.3	3.3	59.4	343.3	151.6	187.9	368.0	136.2	160.8	137.0	0.0	0.2	1622.0
1960	108.0	0.0	42.0	22.0	59.0	366.0	179.0	95.0	59.0	95.0	12.0	3.0	1040.0
1961	92.0	3.0	42.0	7.0	92.0	219.0	327.0	226.0	187.0	41.0	12.0	0.0	1248.0
1962	2.0	0.0	14.0	107.0	66.0	291.0	37.0	134.0	39.0	67.0	9.0	8.0	774.0
1963	2.0	38.0	31.0	99.0	94.0	186.0	212.0	442.0	180.0	87.0	65.0	11.0	1447.0
1964	37.0	12.0	8.0	23.0	126.0	105.0	80.0	147.0	51.0	33.0	54.0	228.0	904.0
1965	22.0	57.0	21.0	178.0	142.0	344.0	287.0	249.0	49.0	92.0	145.0	58.0	1644.0
1966	0.0	0.0	13.0	210.0	122.0	382.0	343.0	186.0	53.0	56.0	13.0	134.0	1512.0
1967	34.0	42.0	3.4	14.0	274.0	124.0	227.0	113.0	78.0	71.0	37.0	30.0	1037.4
1968	0.0	20.0	18.0	72.0	20.0	175.0	72.0	76.0	105.0	59.0	66.0	125.0	808.0
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
MIN	0.0	0.0	0.0	0.3	20.0	74.0	37.0	48.0	14.5	0.0	0.0	0.0	719.5
MAX	126.1	106.0	166.5	343.3	569.6	604.3	538.0	451.8	413.0	191.0	276.5	228.0	2801.5
PROM	26.7	24.7	35.0	77.5	219.7	236.0	222.0	185.8	107.5	59.8	49.6	35.7	1282.7
DESV	35.3	26.9	38.6	72.5	126.1	141.1	118.6	115.7	83.8	42.7	61.7	49.5	399.0
CV	1.3	1.1	1.1	0.9	0.6	0.6	0.5	0.6	0.8	0.7	1.2	1.4	0.3
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO
EST 54 QUILACO
LAT 3742 LON 7201

SUP 24262 (KM2)

709.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1948	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	81.0	6.0	103.0	-1.0
1949	1.0	76.0	118.0	60.0	417.0	367.0	47.0	107.0	2.0	0.0	16.0	116.0	1327.0
1950	0.0	17.0	51.0	209.0	507.0	310.0	51.0	340.0	122.0	-1.0	-1.0	-1.0	-1.0
1951	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	377.0	167.0	140.0	37.0	159.0	40.0	-1.0
1952	0.0	62.0	226.0	4.0	264.0	210.0	212.0	141.0	91.0	124.0	23.0	18.0	1375.0
1953	195.0	17.0	39.0	126.0	383.0	154.0	366.0	389.0	264.0	52.0	17.0	30.0	2032.0
1954	4.5	32.5	28.0	199.0	283.5	266.0	524.0	218.0	75.0	49.0	28.0	55.5	1763.0
1955	20.0	73.0	6.0	122.3	178.1	278.5	88.9	232.5	45.5	13.0	5.0	250.0	1312.8
1956	93.0	36.0	242.0	157.0	252.0	135.0	249.5	84.0	98.0	73.5	16.0	6.0	1442.0
1957	17.0	-1.0	21.0	55.0	221.0	143.0	369.0	332.0	92.5	72.0	58.0	40.0	-1.0
1958	27.5	7.0	8.0	99.0	467.5	300.0	180.5	208.0	189.0	32.0	72.8	0.0	1591.3
1959	83.0	21.0	72.0	479.0	212.0	222.0	263.0	159.5	135.0	138.0	7.0	5.0	1796.5
1960	164.0	0.0	14.0	52.0	47.0	409.5	274.0	104.0	105.0	132.0	25.0	52.0	1378.5
1961	143.0	5.0	70.0	30.0	157.0	196.0	389.0	263.0	211.0	100.0	16.0	0.5	1510.5
1962	4.0	0.0	38.0	74.8	98.5	312.0	39.0	172.0	74.0	25.0	11.1	3.0	851.4
1963	9.5	39.0	37.0	86.5	87.0	259.8	336.3	448.0	141.5	127.0	100.3	10.0	1680.9
1964	55.5	22.0	7.0	22.8	167.4	166.3	123.7	227.2	84.7	22.5	82.0	315.4	1296.5
1965	46.1	58.5	26.0	242.0	184.5	333.6	375.6	330.8	82.6	155.1	203.7	94.8	2133.3
1966	0.0	0.0	41.8	179.5	209.5	416.0	347.9	189.5	164.3	196.5	36.9	206.3	1988.2
1967	96.9	91.5	29.4	49.5	257.9	199.5	236.4	291.3	117.7	108.2	59.7	66.7	1604.7
1968	0.8	67.8	40.3	58.5	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
MIN	0.0	0.0	6.0	4.0	47.0	135.0	39.0	84.0	2.0	-0.0	5.0	0.0	851.4
MAX	195.0	91.5	242.0	479.0	507.0	416.0	524.0	448.0	264.0	196.5	203.7	315.4	2133.3
PROM	50.6	34.7	58.7	121.4	244.1	259.9	255.3	231.8	117.6	80.9	49.6	74.3	1567.7
DESV	61.7	29.8	67.4	110.2	128.2	88.0	138.4	101.4	60.2	54.7	54.6	90.5	328.5
CV	1.2	0.9	1.1	0.9	0.5	0.3	0.5	0.4	0.5	0.7	1.1	1.2	0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 55 MULCHEN RIEGO
 LAT 3743 LON 7215 ALT 128 (MTS)

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1962	0.0	0.0	22.0	82.0	105.0	291.0	46.0	146.0	61.9	49.0	11.5	5.0	819.4
1963	3.0	30.0	39.0	101.5	45.5	222.5	298.5	390.0	160.0	90.0	62.5	2.5	1445.0
1964	33.5	14.5	5.5	20.5	129.0	115.5	103.0	192.0	58.5	35.5	46.0	277.0	1030.5
1965	28.5	69.0	21.0	188.5	144.0	301.0	299.0	285.5	56.0	88.5	143.5	67.0	1691.5
1966	0.0	65.0	21.0	189.5	110.0	313.0	308.0	178.5	52.5	77.5	16.5	146.0	1477.5
1967	51.5	62.5	10.5	30.5	202.5	151.5	210.5	196.0	87.5	65.5	20.0	46.5	1135.0
1968	0.0	46.5	24.5	72.5	24.0	123.7	61.4	88.0	121.8	62.5	86.5	85.0	796.4
MIN	0.0	0.0	5.5	20.5	24.0	115.5	46.0	88.0	52.5	35.5	11.5	2.5	796.4
MAX	51.5	69.0	39.0	189.5	202.5	313.0	308.0	390.0	160.0	90.0	143.5	277.0	1691.5
PROM	16.6	41.1	20.5	97.9	108.6	216.9	189.5	210.9	85.5	66.9	55.2	89.9	1199.3
DESV	21.0	26.9	10.7	68.4	60.1	86.7	117.5	98.8	41.1	20.2	47.5	96.1	346.2
CV	1.3	0.7	0.5	0.7	0.6	0.4	0.6	0.5	0.5	0.3	0.9	1.1	0.3

710.

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO
EST 56 MULCHEN D O S
LAT 3743 LON 7215 ALT 128 (MTS)

SUP 24262 (KM2)

711.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1912	-1.0	-1.0	-1.0	-1.0	46.5	-1.0	120.0	143.5	56.4	77.0	56.0	0.0	-1.0
1913	0.0	0.0	14.5	160.0	401.5	123.5	319.0	-1.0	-1.0	0.0	0.0	-1.0	-1.0
1914	-1.0	0.0	21.5	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1918	-1.0	-1.0	66.3	168.1	176.7	176.8	136.5	137.5	86.6	22.2	301.4	7.1	-1.0
1919	14.6	38.8	35.1	182.4	398.7	188.9	313.2	93.4	140.7	55.9	113.4	11.6	1586.7
1920	0.0	0.0	82.0	63.6	348.9	164.0	56.7	164.6	115.4	105.8	91.9	22.2	1215.1
1921	24.5	47.5	42.7	100.6	337.1	175.6	38.5	118.6	51.5	60.4	16.5	124.2	1137.7
1922	39.3	4.8	235.2	20.0	140.0	290.6	425.5	281.9	97.7	72.7	4.6	0.0	1612.3
1923	5.2	80.0	92.7	4.0	50.1	228.2	160.1	269.9	67.9	103.5	55.9	36.9	1154.4
1924	0.0	43.0	131.6	18.9	63.6	238.1	176.2	55.7	66.1	13.4	0.0	8.0	814.6
1925	1.0	36.3	87.0	179.5	68.3	228.3	142.0	111.2	246.6	38.6	75.1	59.0	1372.9
1926	25.8	5.5	174.3	132.1	199.2	495.5	274.2	196.8	148.0	84.4	29.0	65.7	1830.5
1927	9.0	32.0	42.5	48.0	437.0	125.0	220.0	134.0	182.0	70.0	61.5	34.0	1395.0
1928	24.5	21.0	160.0	219.0	356.5	201.5	187.0	69.0	23.0	21.5	48.0	33.5	1364.5
1929	67.0	0.0	2.0	35.0	160.0	286.0	99.0	286.0	130.0	23.0	28.0	83.0	1199.0
1930	0.0	3.0	8.0	236.0	93.0	565.0	420.0	249.0	103.0	182.0	72.0	166.0	2097.0
1931	54.0	4.0	29.0	143.0	99.0	403.0	220.0	188.0	63.0	62.0	58.0	0.0	1323.0
1932	11.0	1.0	30.0	193.0	26.0	453.0	353.0	223.0	87.0	115.0	21.0	95.0	1608.0
1933	87.0	4.0	11.0	85.0	132.0	149.0	93.0	138.0	105.0	57.0	20.0	30.0	911.0
1934	0.0	51.0	62.0	0.0	276.0	557.0	172.0	46.0	38.0	89.0	14.0	2.0	1307.0
1935	31.0	79.0	7.0	44.0	334.0	439.0	124.0	206.0	128.0	63.0	98.0	78.0	1631.0
1936	13.0	18.0	121.0	325.0	408.0	302.0	269.0	170.0	78.0	45.0	48.0	50.0	1847.0
1937	0.0	95.0	6.0	67.0	167.0	203.0	226.0	598.0	52.0	37.0	46.0	32.0	1529.0
1938	24.0	0.0	108.0	54.0	267.0	138.0	358.0	66.0	67.0	75.0	62.0	0.0	1219.0
1939	62.0	90.0	5.0	19.0	276.0	231.0	82.0	312.0	63.0	229.0	3.0	24.0	1396.0
1940	21.0	64.0	42.0	231.0	470.0	321.0	421.0	19.0	113.0	84.0	50.0	76.0	1912.0
1941	0.0	21.0	44.0	74.0	215.0	261.0	489.0	266.0	31.0	73.0	280.0	45.0	1799.0
1942	0.0	21.0	32.0	84.0	188.0	112.0	220.0	375.0	110.0	62.0	47.0	0.0	1251.0
1943	0.0	2.0	169.0	31.0	248.0	75.0	136.0	171.0	165.0	34.0	14.0	0.0	1045.0
1944	9.0	29.0	15.0	19.0	149.0	266.0	132.0	358.0	59.0	116.0	48.0	0.0	1200.0
1945	14.0	116.0	71.0	104.0	319.0	140.0	216.0	194.0	126.0	13.0	92.0	20.0	1425.0
1946	42.0	35.0	23.0	90.0	215.0	183.0	186.0	78.0	174.0	49.0	81.0	66.0	1222.0
1947	10.0	1.0	32.0	39.0	125.0	330.0	143.0	84.0	119.0	64.0	50.0	38.0	1035.0
1948	24.0	1.0	17.0	141.0	210.0	192.0	267.0	89.0	252.0	60.0	6.0	92.0	1351.0
1949	0.0	59.4	135.0	34.0	353.0	338.0	52.0	48.0	10.0	5.0	21.0	96.0	1151.4
1950	0.0	4.0	48.0	150.0	456.0	255.0	66.0	313.0	185.0	36.0	111.0	20.0	1644.0
1951	77.0	30.0	9.0	1.0	377.0	408.0	321.0	96.0	87.0	34.0	110.0	28.0	1578.0
1952	0.0	39.0	140.0	2.0	187.0	167.0	140.0	74.0	52.0	101.0	19.0	0.0	921.0
1953	158.0	22.0	61.0	61.0	346.0	97.0	323.0	256.0	244.0	24.0	15.0	12.0	1619.0
1954	0.0	32.0	0.0	194.0	218.0	210.0	320.0	178.0	34.0	40.0	12.0	0.0	1238.0
1955	6.0	53.0	0.0	57.0	129.0	227.0	52.0	167.0	39.0	4.0	4.0	76.0	814.0
1956	80.0	15.0	133.0	113.0	142.0	110.0	207.0	81.0	32.0	61.0	0.0	0.0	974.0
1957	18.0	0.0	0.0	36.5	190.0	125.0	220.0	242.0	58.0	41.5	38.0	31.0	1000.0
1958	10.0	17.0	6.5	81.5	447.5	304.5	169.0	213.0	50.5	51.0	55.5	0.0	1406.0
1959	68.0	11.0	81.0	348.5	131.5	117.0	249.5	68.0	85.0	147.0	5.5	4.0	1316.0
1960	94.0	0.0	56.5	52.5	85.5	235.0	202.0	88.0	80.0	129.5	9.5	16.0	1048.5
1961	89.5	20.0	62.5	27.5	75.0	208.0	340.0	223.5	231.0	63.5	16.0	0.0	1356.5
1962	0.0	0.0	20.0	100.5	145.5	266.5	42.5	150.5	34.0	81.0	12.5	5.0	858.0
1963	3.0	32.5	37.5	39.0	95.5	236.5	310.0	396.5	163.5	87.0	67.0	8.5	1477.0
1964	36.0	14.5	5.5	24.0	132.0	115.0	72.0	189.0	71.0	27.0	53.0	286.0	1025.0

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1966	0.0	65.0	20.0	187.0	103.0	284.0	292.0	174.0	51.0	64.0	11.0	104.0	1355.0
MIN	0.0	0.0	0.0	0.0	26.0	75.0	38.5	19.0	10.0	0.0	0.0	0.0	814.0
MAX	158.0	116.0	235.2	348.5	470.0	565.0	489.0	598.0	252.0	229.0	301.4	286.0	2097.0
PRDM	26.1	27.7	56.7	98.4	220.3	243.8	211.5	180.6	99.0	65.1	51.0	40.5	1331.3
DESV	34.3	29.2	55.5	83.4	125.8	117.7	113.3	110.6	61.7	44.1	59.0	52.9	301.1
CV	1.3	1.1	1.0	0.8	0.6	0.5	0.5	0.6	0.6	0.7	1.2	1.3	0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO
 EST 57 CERRO EL PADRE
 LAT 3746 LON 7153 ALT 400 (MTS)

SUP 24262 (KM2)

713.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1943	-1.0	-1.0	-1.0	-1.0	323.0	106.0	322.0	195.0	299.0	54.0	46.0	0.0	-1.0
1944	17.0	25.0	41.0	41.0	296.0	455.0	213.0	435.0	154.0	225.0	106.0	0.0	2138.9
1945	10.0	215.0	157.0	189.0	586.0	314.0	485.0	271.0	160.0	81.0	172.0	92.0	2732.0
1946	71.0	114.0	40.0	146.0	267.0	304.0	402.0	209.0	296.0	86.0	202.0	32.0	2169.0
1947	31.0	9.0	70.0	88.0	293.0	470.0	186.0	173.0	108.0	110.0	65.0	93.0	1696.0
1948	62.0	0.0	59.0	250.0	237.0	296.0	428.0	172.0	416.0	91.0	5.0	128.0	2144.0
1949	0.0	115.0	166.0	81.0	658.0	449.0	101.0	129.0	37.0	4.0	42.0	161.0	1943.0
1950	0.0	20.0	97.0	337.0	594.0	456.0	180.0	609.0	212.0	125.0	161.0	47.0	2838.0
1951	299.0	59.0	59.0	23.0	626.0	555.0	477.0	249.0	204.0	60.0	217.0	80.0	2908.0
1952	0.0	55.0	316.0	8.0	377.0	283.0	264.0	166.0	111.0	145.0	34.0	12.0	1771.0
1953	209.0	21.0	33.0	178.0	412.0	260.0	505.0	503.0	639.0	112.0	28.0	38.0	2938.0
1954	27.0	50.0	15.0	204.0	386.0	309.0	602.0	398.0	139.0	94.0	9.0	72.0	2305.0
1955	35.0	78.0	4.0	176.0	157.0	481.0	198.0	326.0	67.0	0.0	0.0	282.0	1804.0
1956	208.0	45.0	349.0	245.0	349.0	127.0	365.0	153.0	148.0	95.0	83.0	0.0	2167.0
1957	20.0	30.0	0.0	105.0	298.0	300.0	387.0	627.0	136.0	98.0	140.0	24.0	2165.0
1958	42.0	15.0	0.0	49.0	339.0	201.0	240.0	221.0	171.0	32.0	175.0	0.0	1485.0
1959	117.0	23.0	99.0	486.0	341.0	342.0	452.0	243.0	208.0	267.0	8.0	2.0	2588.0
1960	152.0	0.0	126.0	57.0	60.0	527.0	510.0	224.0	88.0	267.0	14.0	109.0	2134.0
1961	184.0	0.0	150.0	35.0	145.0	244.0	583.0	204.0	313.0	207.0	80.0	5.0	2150.0
1962	8.0	0.0	61.0	58.0	98.5	379.0	91.0	424.0	94.0	58.0	36.5	30.0	1338.0
1963	8.5	54.0	70.5	98.5	110.0	317.0	450.0	590.0	221.0	209.0	125.0	10.0	2263.5
1964	25.0	34.0	33.0	20.0	267.0	280.0	188.0	320.0	158.0	68.0	119.0	318.0	1830.0
1965	47.0	99.0	36.0	191.0	350.0	414.0	327.0	361.0	109.0	184.0	278.0	134.0	2530.0
1966	8.0	6.0	45.0	209.0	243.0	490.0	401.0	313.0	99.0	184.0	295.0	56.0	2349.0
1967	130.0	115.0	39.0	62.0	330.1	212.0	196.0	251.0	143.0	173.0	128.0	23.0	1802.1
1968	0.0	0.0	33.0	107.0	86.0	229.0	199.0	120.0	191.0	87.0	108.0	209.0	1369.0
MIN	0.0	0.0	0.0	8.0	60.0	106.0	91.0	120.0	37.0	0.0	0.0	0.0	1338.0
MAX	299.0	215.0	349.0	486.0	658.0	555.0	602.0	627.0	639.0	267.0	295.0	318.0	2938.0
PROM	68.4	47.3	83.9	137.7	316.5	338.5	336.6	303.3	189.3	119.8	102.9	75.3	2142.3
DESV	82.7	51.6	88.4	112.3	163.1	120.6	148.4	149.5	125.2	74.3	84.0	86.7	450.3
CV	1.2	1.1	1.1	0.8	0.5	0.4	0.4	0.5	0.7	0.6	0.8	1.2	0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 58 ANGOL D O S
 LAT 3748 LON 7242 ALT 72 (MTS)

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1912	3.6	9.7	14.7	62.1	128.5	172.2	52.4	139.7	28.0	29.6	24.0	6.2	670.7
1913	0.0	0.0	12.6	175.2	265.2	151.7	337.8	164.9	126.5	11.3	0.0	15.2	1260.4
1914	33.9	0.0	14.9	55.3	214.3	329.3	513.7	102.1	165.6	74.4	43.6	42.8	1589.9
1918	-1.0	-1.0	62.3	138.6	162.3	248.2	132.0	137.5	74.5	37.9	290.9	2.4	-1.0
1919	45.6	21.1	11.0	153.2	344.3	92.3	371.5	119.0	95.0	16.0	89.0	14.0	1372.0
1920	0.0	0.0	38.0	57.0	377.0	92.0	21.0	249.0	69.0	37.0	50.0	3.0	993.0
1921	40.5	15.4	35.4	85.3	303.2	159.6	41.8	76.5	29.2	28.7	0.0	59.0	874.6
1922	35.6	0.0	54.5	20.7	69.5	373.7	415.0	231.2	84.5	-1.0	-1.0	-1.0	-1.0
1923	0.0	16.5	78.1	0.0	15.8	290.3	183.8	342.5	39.3	80.9	18.3	14.0	1079.5
1924	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1925	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1926	3.0	1.0	156.1	43.5	141.4	560.4	157.8	253.9	78.7	53.6	16.8	67.5	1533.7
1927	0.0	10.8	11.9	19.4	335.3	189.3	315.6	106.0	204.1	108.2	43.1	9.0	1352.7
1928	7.4	13.5	70.1	112.7	325.2	158.6	157.0	51.4	16.3	13.3	30.8	32.7	989.0
1929	86.0	0.0	3.0	24.0	137.0	191.0	122.0	250.0	150.0	16.0	7.0	45.0	1031.0
1930	0.2	1.0	9.0	242.0	72.0	356.0	422.0	212.0	35.0	64.0	43.0	109.0	1565.2
1931	118.0	8.0	18.0	65.0	51.0	361.0	273.0	217.0	63.0	18.0	13.0	1.0	1206.0
1932	7.0	10.0	1.0	125.0	11.0	358.0	284.0	188.0	56.0	125.0	5.0	68.0	1238.0
1933	78.0	6.0	18.0	53.0	195.0	196.0	115.0	140.0	40.0	46.0	3.0	16.0	906.0
1934	3.0	12.0	21.0	34.0	148.0	447.0	105.0	65.0	51.0	4.0	27.0	2.0	919.0
1935	7.0	23.0	19.0	7.0	267.0	235.0	109.0	203.0	61.0	81.0	59.0	18.0	1089.0
1936	6.0	22.0	24.0	73.0	245.0	174.0	253.0	138.0	40.0	29.0	21.0	39.0	1064.0
1937	0.0	53.0	2.0	22.0	119.0	170.0	216.0	241.0	43.0	14.0	23.0	5.0	908.0
1938	2.0	0.0	175.0	23.0	136.0	188.0	224.0	43.0	44.0	34.0	39.0	25.0	933.0
1939	33.0	24.0	0.0	3.0	258.0	241.0	109.0	308.0	135.0	225.0	16.0	5.0	1357.0
1940	7.0	53.0	29.0	89.0	270.0	601.0	527.0	4.0	127.0	92.0	14.0	23.0	1836.0
1941	0.0	48.0	28.0	170.0	285.0	141.0	751.0	206.0	9.0	29.0	115.0	15.0	1797.0
1942	0.0	7.0	6.0	36.0	136.0	68.0	179.0	300.0	79.0	11.0	20.0	0.0	842.0
1943	0.0	0.0	64.0	66.0	183.0	76.0	100.0	68.0	177.0	17.0	8.0	0.0	759.0
1944	1.0	6.0	3.0	23.1	149.2	269.7	101.4	437.0	19.0	78.4	11.3	0.0	1099.1
1945	0.0	48.2	26.7	37.7	255.6	64.1	210.4	173.2	68.4	19.3	14.2	7.3	925.1
1946	26.8	13.5	4.9	45.5	241.6	160.6	141.3	65.2	128.9	26.7	46.5	71.6	973.1
1947	20.0	0.2	16.0	25.1	112.2	464.8	120.5	65.5	106.2	53.0	6.7	17.3	1007.5
1948	28.3	0.0	2.8	74.8	174.8	145.9	242.8	56.6	167.4	40.4	0.2	44.9	978.9
1949	0.0	16.9	62.6	19.1	322.2	295.8	79.5	14.4	10.3	4.3	19.3	9.0	853.4
1950	0.0	0.0	0.0	156.0	387.9	270.7	58.3	179.6	160.8	51.9	88.5	2.1	1355.8
1951	26.2	16.6	0.0	4.6	273.4	418.8	282.2	50.7	44.6	8.6	53.2	11.5	1190.4
1952	11.5	12.4	54.5	0.0	163.6	106.8	167.0	71.3	15.0	40.5	13.1	0.0	655.7
1953	25.5	3.9	25.2	67.1	303.5	76.4	323.0	338.9	278.3	35.7	15.5	25.3	1518.3
1954	25.5	25.2	0.0	98.6	155.2	244.8	323.0	135.2	32.6	34.5	7.7	26.1	1108.4
1955	5.1	48.3	0.0	21.6	25.6	140.7	19.0	126.2	22.0	1.7	9.0	37.5	456.7
1956	54.3	10.4	73.2	76.5	125.5	57.8	144.2	56.1	53.0	31.1	7.7	0.0	689.8
1957	11.2	0.0	0.0	39.4	259.2	110.6	163.1	150.6	49.4	15.0	4.2	73.6	876.3
1958	5.2	5.9	14.3	65.8	317.8	226.3	190.2	208.5	131.4	11.2	37.1	2.0	1215.7
1959	90.7	0.0	32.9	172.9	87.6	191.5	294.2	93.4	106.6	71.7	2.6	0.0	1144.1
1960	50.6	1.2	48.1	10.6	45.8	242.7	132.3	59.5	59.1	79.9	8.2	6.3	744.3
1961	35.9	0.8	56.1	12.6	124.9	363.0	325.4	128.6	140.0	18.6	1.7	0.0	1207.6
1962	1.4	0.0	7.3	64.0	-1.0	-1.0	19.6	119.8	-1.0	-1.0	-1.0	0.0	-1.0
1963	0.0	0.0	42.6	32.3	86.8	178.8	308.0	409.0	141.5	51.4	91.2	35.6	1377.2
1964	17.0	6.0	3.0	24.0	90.0	-1.0	60.0	178.0	55.0	31.0	48.0	28.0	675.2

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1965	28.0	34.0	9.0	204.0	79.0	253.0	369.0	451.0	48.0	74.0	145.0	57.0	1751.0
1966	0.0	5.0	5.0	105.0	96.0	479.0	305.0	150.0	21.0	33.0	53.0	93.0	1345.0
1967	16.0	42.0	2.0	6.3	224.0	130.0	324.0	124.0	74.0	89.0	13.0	13.0	1057.3
1968	0.0	34.0	64.0	40.0	21.0	141.0	82.0	100.0	72.0	71.0	84.0	70.0	780.0
MIN	0.0	0.0	0.0	0.0	11.0	57.8	19.0	4.0	9.0	1.7	0.0	0.0	456.7
MAX	118.0	53.0	175.0	242.0	387.9	601.0	751.0	451.0	278.3	225.0	290.9	109.0	1836.0
PROM	19.5	13.4	29.4	65.0	182.7	233.1	216.8	163.4	80.9	45.4	36.0	24.9	1105.1
DESV	26.8	15.9	36.0	57.7	102.8	130.7	146.7	105.6	57.5	39.2	48.7	27.3	313.6
CV	1.4	1.2	1.2	0.9	0.6	0.6	0.7	0.6	0.7	0.9	1.4	1.1	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

 ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 59 CHUMPIRRO
 LAT 3749 LON 7236

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1919	-1.0	-1.0	13.3	210.3	525.5	147.2	352.2	91.4	91.4	28.1	78.0	7.0	-1.0
1920	0.0	1.6	24.1	55.2	404.0	123.6	63.0	173.7	78.8	71.6	66.0	5.8	1067.4
1921	21.1	19.5	24.6	135.4	368.0	151.5	56.6	78.2	29.2	58.9	0.8	72.1	1015.9
1922	45.7	2.0	83.8	27.6	69.6	352.6	526.0	178.5	101.4	52.0	2.1	0.0	1441.3
1923	7.8	57.0	38.5	1.3	10.7	310.5	211.3	310.2	62.2	104.5	47.8	15.0	1176.8
1924	0.0	24.3	62.7	28.3	49.7	151.1	167.2	69.8	37.0	14.0	1.1	3.7	608.9
1925	0.0	57.1	16.3	122.3	59.3	259.8	175.4	83.3	360.5	20.0	45.2	28.0	1227.2
1926	6.2	0.1	206.7	68.9	215.1	618.6	236.0	279.5	98.3	67.9	40.9	89.8	1928.0
1927	0.3	19.7	6.4	11.6	302.5	-1.0	271.5	97.7	162.5	85.0	42.1	-1.0	-1.0
1928	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1929	112.0	10.0	0.0	31.0	159.0	329.0	111.0	271.0	146.0	28.0	12.0	52.0	1261.0
1930	0.0	0.0	13.0	240.0	78.0	367.0	403.0	193.0	43.0	143.0	58.0	118.0	1656.0
1931	124.0	11.0	20.0	107.0	58.0	311.0	210.0	214.0	59.0	48.0	12.0	7.0	1181.0
1932	0.0	0.0	0.0	183.0	35.0	466.0	228.0	205.0	87.0	109.0	15.0	74.0	1402.0
1933	96.0	5.0	6.0	55.0	203.0	241.0	115.0	123.0	62.0	52.0	2.0	-1.0	-1.0
1934	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1935	20.0	42.0	25.0	10.0	271.0	252.0	81.0	211.0	84.0	57.0	79.0	26.0	1158.0
1936	24.0	19.0	52.0	103.0	313.0	140.0	145.0	122.0	30.0	37.0	10.0	34.0	1029.0
1937	0.0	62.0	2.0	26.0	116.0	162.0	148.0	218.0	32.0	12.0	17.0	13.0	808.0
1938	2.0	0.0	61.0	18.0	112.0	167.0	157.0	18.0	35.0	22.0	31.0	0.0	623.0
1939	20.0	31.0	0.0	1.0	153.0	184.0	82.0	189.0	75.0	151.0	14.0	11.0	911.0
1940	15.0	56.0	36.0	81.0	226.0	385.0	240.0	34.0	76.0	48.0	56.0	29.0	1282.0
1941	0.0	14.0	42.0	58.0	207.0	226.0	543.0	187.0	16.0	19.0	93.0	14.0	1419.0
1942	0.0	10.0	9.0	40.0	117.0	66.0	158.0	314.0	80.0	14.0	11.0	2.0	821.0
1943	0.0	0.0	46.0	78.0	222.0	60.0	184.0	68.0	207.0	16.0	16.0	0.0	897.0
1944	4.0	6.0	0.0	66.0	196.0	299.0	151.5	601.0	38.5	144.0	39.5	0.0	1545.5
1945	4.0	20.5	90.5	142.0	326.0	177.0	192.0	216.5	92.5	14.5	31.0	5.5	1312.0
1946	34.5	19.0	6.0	29.5	142.0	125.0	140.5	74.0	122.0	25.0	53.0	68.0	838.5
1947	22.0	0.0	13.0	41.0	105.0	473.0	127.0	88.0	120.0	55.0	47.0	18.0	1139.0
1948	27.0	0.0	5.0	87.0	169.0	153.0	253.0	90.0	217.0	62.0	0.0	66.0	1129.0
1949	0.0	30.0	78.0	34.0	290.0	290.0	71.0	39.0	8.0	4.0	30.0	48.0	922.0
1950	0.0	0.0	27.0	149.0	447.0	308.0	67.0	232.0	145.0	35.0	118.0	6.0	1534.0
1951	49.0	28.0	0.0	0.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
MIN	0.0	0.0	0.0	0.0	10.7	60.0	56.6	18.0	8.0	4.0	0.0	0.0	608.9
MAX	124.0	62.0	206.7	240.0	525.5	618.6	543.0	601.0	360.5	151.0	118.0	118.0	1928.0
PROM	21.2	18.2	32.5	72.3	198.3	251.6	195.5	169.0	93.2	53.2	35.6	29.0	1160.5
DESV	33.6	19.6	41.7	63.0	129.6	130.1	123.0	116.9	72.6	41.2	30.1	32.1	313.3
CV	1.6	1.1	1.3	0.9	0.7	0.5	0.6	0.7	0.8	0.8	0.8	1.1	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 60 EL VERGEL
 LAT 3749 LON 7239

717.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1925	-1.0	-1.0	-1.0	-1.0	36.8	156.9	139.1	43.5	179.5	24.4	29.3	17.5	-1.0
1926	2.4	1.0	138.8	49.8	105.3	469.9	137.2	197.4	65.7	50.4	16.4	59.5	1293.9
1927	0.4	12.8	9.2	21.1	302.6	186.9	267.7	91.6	163.5	86.1	41.8	6.9	1190.6
1928	6.9	17.5	71.1	84.5	269.4	158.5	159.5	47.7	16.4	10.0	27.3	32.7	901.5
1929	79.0	2.0	1.0	21.0	121.0	229.0	85.0	191.0	99.0	18.0	12.0	41.0	899.0
1930	0.0	3.0	8.0	202.0	50.0	283.0	341.0	193.0	17.0	92.0	55.0	93.0	1337.0
1931	103.0	8.0	17.0	62.0	51.0	276.0	215.0	154.0	42.0	21.0	18.0	11.0	978.0
1932	9.0	4.0	1.0	123.0	15.0	386.0	169.0	155.0	66.0	89.0	10.0	63.0	1090.0
1933	65.0	7.0	11.0	49.0	153.0	147.0	96.0	97.0	37.0	37.0	4.0	15.0	718.0
1934	2.0	11.0	23.0	12.0	112.0	380.0	122.0	51.0	48.0	12.0	19.0	2.0	794.0
1935	11.0	26.0	19.0	7.0	252.0	254.0	98.0	179.0	48.0	70.0	53.0	10.0	1027.0
1936	5.0	18.0	28.0	87.0	249.0	152.0	195.0	103.0	31.0	25.0	2.0	25.0	920.0
1937	0.0	45.0	0.0	20.0	89.0	120.0	152.0	190.0	28.0	11.0	18.0	10.0	683.0
1938	6.0	0.0	140.0	20.0	114.0	124.0	165.0	23.0	38.0	29.0	37.0	0.0	696.0
1939	25.0	20.0	0.0	5.0	151.0	209.0	65.0	202.0	72.0	174.0	6.0	6.0	935.0
1940	6.0	50.0	23.0	59.0	209.0	391.0	339.0	28.0	71.0	93.0	44.0	26.0	1339.0
1941	0.0	44.0	65.0	93.0	225.0	191.0	471.0	153.0	7.0	16.0	126.0	13.0	1404.0
1942	0.0	4.0	9.0	27.0	103.0	65.0	158.0	228.0	59.0	9.0	24.0	0.0	686.0
1943	0.0	0.0	69.0	65.0	187.0	74.0	92.0	110.0	97.0	22.0	13.0	0.0	729.0
1944	4.0	9.0	3.0	23.0	142.6	198.8	82.0	330.2	29.1	78.7	14.0	0.0	914.4
1945	1.0	34.5	26.0	88.2	216.4	52.1	166.6	139.1	65.8	17.0	50.6	9.0	806.3
1946	32.5	15.9	5.0	43.4	128.2	151.7	120.5	69.7	115.5	27.2	40.3	71.2	821.1
1947	19.0	2.0	12.5	23.5	91.0	390.2	99.2	48.7	88.8	58.7	5.0	14.6	853.2
1948	25.3	0.0	6.5	54.4	140.3	94.2	189.7	65.7	136.3	34.1	0.0	42.9	789.4
1949	0.0	22.8	55.0	17.2	278.6	249.9	92.3	18.0	5.5	8.5	18.7	40.6	807.1
1950	0.0	0.3	17.1	99.9	372.0	183.1	43.1	168.0	109.4	35.7	68.2	2.1	1098.9
1951	26.2	18.0	3.0	4.6	271.4	418.8	282.2	50.7	44.6	8.6	53.2	11.5	1192.8
1952	11.5	12.4	54.5	0.0	163.6	132.5	167.0	57.5	15.8	34.6	13.4	0.0	662.8
1953	56.0	4.4	32.9	69.0	233.8	88.3	237.8	268.4	265.1	32.3	9.3	25.3	1322.6
MIN	0.0	0.0	0.0	0.0	15.0	52.1	43.1	18.0	5.5	8.5	0.0	0.0	662.8
MAX	103.0	50.0	140.0	202.0	372.0	469.9	471.0	330.2	265.1	174.0	126.0	93.0	1404.0
PROM	17.7	14.0	30.3	51.1	166.7	214.2	170.6	126.0	71.1	42.2	28.6	22.4	960.3
DESV	26.7	14.5	37.7	44.7	88.4	116.7	95.5	80.1	58.3	37.5	26.4	24.2	231.1
CV	1.5	1.0	1.2	0.9	0.5	0.5	0.6	0.6	0.8	0.9	0.9	1.1	0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

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PRECIPITACIONES (MM)
*****
ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
EST 61 ANGOL ESC NORMAL
LAT 3749 LON 7243
*****
ANO ENE FEB MAR ABR MAY JUN JUL AG SEP OCT NOV DIC TOT
1968 0.0 36.0 19.0 40.0 10.0 133.0 62.0 88.0 42.0 44.0 52.0 -1.0 -1.0
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PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2) 719.

EST 62 STA ELENA DE DUQUECO

LAT 3750 LON 7210 ALT 100 (MTS)

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1927	-1.0	-1.0	-1.0	-1.0	384.4	224.7	312.0	144.9	144.1	70.4	58.6	33.1	-1.0
1928	17.6	13.9	95.8	127.1	263.2	167.0	175.6	53.5	25.9	16.1	36.2	41.5	1033.4
1929	93.0	0.0	0.3	23.0	137.0	185.0	84.0	257.0	118.0	35.0	26.0	87.0	1045.3
1930	0.0	1.0	4.0	216.0	60.0	383.0	421.0	214.0	47.0	149.0	63.0	142.0	1750.0
1931	56.0	4.0	34.0	111.0	71.0	356.0	238.0	128.0	57.0	63.0	40.0	2.0	1160.0
1932	6.0	7.0	20.0	154.0	33.0	394.0	302.0	204.0	84.0	120.0	14.0	109.0	1447.0
1933	72.0	6.0	26.0	148.0	161.0	235.0	145.0	276.0	83.0	62.0	10.0	50.0	1274.0
MIN	0.0	0.0	0.3	23.0	33.0	167.0	84.0	53.5	25.9	16.1	10.0	2.0	1033.4
MAX	93.0	13.9	95.8	216.0	384.4	394.0	421.0	276.0	144.1	149.0	63.0	142.0	1750.0
PROM	40.8	5.3	30.0	129.8	158.5	277.8	239.7	182.5	79.9	73.6	35.4	66.4	1284.9
DESV	38.3	5.0	34.7	63.4	126.2	96.8	115.0	78.3	41.1	46.4	20.5	48.5	275.3
CV	0.9	0.9	1.2	0.5	0.8	0.3	0.5	0.4	0.5	0.6	0.6	0.7	0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
EST 65 QUENCO BAJC
LAT 3751 LON 7138

720.

JE FEB MAR ABR MAY JUN JUL AG SEP OCT NOV DIC TOT

0 -1.0 -1.0 40.0 441.0 340.0 244.0 424.0 231.0 325.0 123.0 111.0 -1.0
0 112.0 86.0 111.0 95.0 299.0 207.8 175.9 156.2 -1.0 112.1 294.0 -1.0

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)

EST 66 RALCO ENDESA BIO BIO

LAT 3753 LON 7137

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1962	0.0	0.0	10.0	50.0	84.0	452.0	91.0	603.0	108.0	159.0	36.0	-1.0	-1.0
1963	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1964	149.0	51.1	72.9	-1.0	336.8	636.3	384.6	646.6	183.2	-1.0	-1.0	-1.0	-1.0
1965	107.0	147.1	32.1	391.0	641.0	997.0	668.0	632.0	147.0	306.0	387.0	264.0	4719.2
1966	0.0	34.0	130.5	184.0	358.0	786.0	694.0	526.0	128.0	193.2	-1.0	451.2	-1.0
1967	266.0	138.5	105.5	63.5	600.0	363.5	365.0	597.5	234.5	408.0	108.5	111.0	3361.5
1968	-1.0	124.0	110.0	159.0	245.0	-1.0	506.0	483.0	-1.0	-1.0	-1.0	-1.0	-1.0
MIN	0.0	0.0	10.0	50.0	84.0	363.5	91.0	483.0	108.0	159.0	36.0	111.0	3361.5
MAX	266.0	147.1	130.5	391.0	641.0	997.0	694.0	646.6	234.5	408.0	387.0	451.2	4719.2
PROM	104.4	82.4	76.8	169.5	377.5	647.0	451.4	581.3	160.1	266.5	177.2	275.4	4040.3
DESV	111.7	61.9	47.5	136.8	212.0	255.1	223.9	63.7	50.0	113.3	185.3	170.4	960.0
CV	1.1	0.8	0.6	0.8	0.6	0.4	0.5	0.1	0.3	0.4	1.0	0.6	0.2

721.

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

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*****
PRECIPITACIONES (MM)
*****
ZCNA 7 HCYA 313 BIC BIC SLP 24262 (KM2)
EST 67 EL TCFREC PRCP OMC TIPC TP
LAT 3753 LON 7156
*****
ANO ENE FEB MAR APR MAY JUN JUL AG SEP OCT NOV CIC TOT
1965 17.0 92.0 22.0 256.0 116.0 337.0 448.0 506.0 49.0 59.0 187.0 49.0 2138.0
1966 C.C C.C 11.0 216.0 115.0 486.0 421.0 189.0 42.0 23.0 23.0 101.0 1627.0
1967 45.0 20.0 8.4 13.0 357.0 165.0 324.0 172.0 101.0 79.0 25.0 23.0 1332.0
1968 C.0 29.0 11.0 46.0 34.0 200.0 127.0 106.0 111.0 53.7 54.0 82.0 855.0
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1220

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)

EST 68 COLLIPULLI

LAT 3753 LON 7226

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1918	-1.0	-1.0	61.6	177.6	209.3	195.2	192.7	199.7	105.3	37.5	201.2	6.6	-1.0
1919	5.5	46.7	35.7	190.2	480.0	228.0	357.0	128.0	163.0	-1.0	-1.0	-1.0	-1.0
1920	0.0	0.0	89.0	40.0	369.0	112.5	50.0	124.0	87.5	105.0	103.0	31.0	1111.0
1921	44.0	47.0	47.0	112.0	288.0	165.0	35.0	132.0	55.0	56.0	2.0	99.0	1082.0
1922	64.0	5.0	82.0	51.0	117.0	355.0	487.0	320.0	89.0	81.0	11.0	0.0	1662.0
1923	6.0	70.0	98.0	10.0	64.0	298.0	216.0	398.0	73.0	137.0	63.0	27.0	1460.0
1924	0.0	33.0	105.0	28.0	82.0	111.6	173.5	74.0	42.5	28.5	0.0	8.0	686.1
1925	4.6	83.6	55.9	160.8	72.7	255.5	173.3	143.3	233.9	64.0	55.0	42.0	1344.6
1926	22.0	5.0	171.5	108.0	164.0	525.5	185.5	386.5	122.0	62.5	16.0	32.0	1800.5
1927	5.0	47.0	12.0	55.0	358.5	172.5	409.0	140.5	220.0	51.5	48.5	7.5	1527.0
1928	23.0	31.0	29.6	192.5	246.5	331.0	217.0	99.1	16.0	17.0	0.0	14.0	1216.7
1929	98.0	0.0	3.0	29.0	124.0	248.0	114.0	272.0	122.0	26.0	28.0	127.0	1191.0
1930	0.0	4.0	17.0	227.0	86.0	312.0	380.0	181.0	40.0	139.0	71.0	134.0	1591.0
1931	142.0	9.0	24.0	166.0	65.0	271.0	189.0	180.0	64.0	53.0	46.0	5.0	1214.0
1932	20.0	14.0	22.0	236.0	38.0	414.0	133.0	182.0	62.0	77.0	21.0	71.0	1290.0
1933	65.0	10.0	16.0	103.0	325.0	210.0	192.0	117.0	46.0	119.0	26.0	33.0	1262.0
1934	27.0	0.0	52.0	29.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
MIN	0.0	0.0	3.0	10.0	38.0	111.6	35.0	74.0	16.0	17.0	0.0	0.0	686.1
MAX	142.0	83.6	171.5	236.0	480.0	525.5	487.0	398.0	233.9	139.0	201.2	134.0	1800.5
PROM	32.9	25.3	54.2	112.7	193.1	262.8	219.0	192.3	96.3	70.3	46.1	42.5	1317.0
DESV	40.8	26.7	43.7	76.8	135.9	109.8	126.8	99.7	63.1	39.2	52.1	44.6	281.4
CV	1.2	1.1	0.8	0.7	0.7	0.4	0.6	0.5	0.7	0.6	1.1	1.0	0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

 ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 69 FUNDO EL FISCAL
 LAT 3753 LON 7226 ALT 244 (MTS)

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1947	33.5	0.0	7.5	20.1	122.3	447.6	139.0	80.0	109.5	86.8	21.5	25.6	1093.4
1948	63.5	0.0	20.3	165.5	215.1	161.9	184.0	55.6	262.2	72.6	0.0	78.9	1279.6
1949	0.0	18.5	106.1	36.4	356.3	322.0	63.6	62.4	30.1	14.2	27.9	62.5	1100.0
1950	0.0	0.0	29.3	142.2	452.7	251.7	87.1	297.6	133.5	60.9	99.4	12.2	1566.6
1951	81.3	41.4	7.8	4.0	362.1	423.3	291.2	66.7	64.3	27.6	88.7	30.1	1488.5
1952	0.0	20.1	108.7	11.5	277.7	159.2	152.9	102.6	31.7	88.4	17.8	0.0	970.6
1953	132.1	8.9	66.3	52.5	314.8	74.2	326.6	280.6	323.1	35.9	6.8	20.3	1642.1
1954	2.0	35.9	0.0	148.6	236.6	253.0	287.5	229.5	66.8	29.8	16.8	45.6	1352.1
1955	8.7	60.6	6.9	85.1	104.9	194.2	49.5	140.6	34.4	4.3	13.2	76.4	778.8
1956	94.1	21.0	118.4	85.2	168.7	119.2	232.4	58.3	83.2	75.6	4.5	0.0	1060.6
1957	36.2	0.0	0.0	55.7	231.5	163.2	267.0	199.0	65.8	33.0	-1.0	-1.0	-1.0
1958	0.0	0.0	18.0	80.5	368.0	181.0	116.0	172.0	138.0	0.0	-1.0	-1.0	-1.0
1959	26.0	0.0	22.0	198.5	82.0	110.5	221.0	71.0	-1.0	-1.0	-1.0	-1.0	-1.0
1960	7.1	0.0	54.4	10.0	77.0	139.0	141.5	68.0	39.5	79.5	11.0	8.5	635.5
1961	64.2	6.6	63.9	32.0	72.5	283.1	161.3	103.8	94.5	54.3	14.8	3.5	954.5
1962	5.1	0.0	7.0	70.5	63.8	283.2	40.6	154.2	60.7	25.4	29.8	3.2	743.5
1963	13.0	42.9	64.7	77.0	91.6	202.9	216.6	365.0	168.2	91.8	93.6	17.4	1427.3
1964	54.0	17.1	12.6	11.6	138.3	106.5	111.0	167.5	41.9	33.4	79.4	63.9	837.2
1965	49.3	71.3	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
MIN	0.0	0.0	0.0	4.0	63.8	74.2	40.6	55.6	30.1	0.0	0.0	0.0	635.5
MAX	132.1	71.3	118.4	198.5	452.7	447.6	326.6	365.0	323.1	91.8	99.4	78.9	1642.1
PROM	35.3	18.1	39.7	71.5	207.5	215.3	171.6	148.6	102.8	47.9	35.0	29.9	1128.7
DESV	38.2	22.3	39.7	58.4	123.4	105.4	87.2	93.6	82.7	30.4	35.6	28.4	317.1
CV	1.1	1.2	1.0	0.8	0.6	0.5	0.5	0.6	0.8	0.6	1.0	0.9	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)

EST 70 COLLIPULLI RETEN

LAT 3757 LON 7226 ALT 244 (MTS)

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1962	-1.0	-1.0	-1.0	127.7	57.6	283.2	24.6	134.4	49.4	51.0	20.1	10.5	-1.0
1963	4.2	28.4	64.1	72.5	73.2	161.3	168.0	166.2	168.9	91.8	93.6	17.4	1109.6
1964	31.1	16.1	10.2	19.9	62.4	76.5	69.9	66.8	50.3	44.4	51.5	10.0	509.1
1965	40.1	31.2	9.5	75.0	87.1	237.0	272.0	335.0	61.1	46.7	135.5	51.7	1391.9
1966	0.0	1.4	41.5	90.0	152.5	426.4	259.2	70.2	39.1	67.8	31.1	-1.0	-1.0
1967	-1.0	18.0	62.0	92.0	83.2	340.0	325.5	173.7	92.5	88.0	25.0	33.0	-1.0
MIN	0.0	1.4	9.5	19.9	57.6	76.5	24.6	66.8	39.1	44.4	20.1	10.0	509.1
MAX	40.1	31.2	64.1	127.7	152.5	426.4	325.5	335.0	168.9	91.8	135.5	51.7	1391.9
PROM	18.8	19.0	37.5	79.5	86.0	254.1	186.5	157.7	76.9	64.9	59.5	24.5	1003.5
DESV	19.8	11.8	26.7	35.2	34.5	125.2	120.1	98.2	48.7	21.0	45.9	17.8	450.9
CV	1.0	0.6	0.7	0.4	0.4	0.5	0.6	0.6	0.6	0.3	0.8	0.7	0.4

725.

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO
EST 71 LOS SAUCES FUNDO
LAT 3759 LON 7249 ALT 111 (MTS)

SUP 24262 (KM2)

726.

AVG	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1912	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	13.3	30.2	22.2	6.0	-1.0
1913	0.0	6.5	18.1	165.4	102.4	81.3	143.4	86.6	62.5	10.0	0.0	10.0	686.2
1914	41.2	0.0	5.2	34.0	69.6	139.4	160.4	67.1	97.4	45.6	37.1	19.7	716.7
1915	5.5	18.3	16.7	101.5	200.0	68.1	98.8	55.8	28.3	15.3	12.4	3.3	624.0
1916	-1.0	-1.0	68.5	67.8	101.6	47.3	88.5	91.6	98.6	21.0	61.9	36.5	-1.0
1917	5.7	59.1	4.8	2.5	68.1	105.6	31.0	38.7	108.1	28.3	8.7	13.9	474.5
1918	41.3	0.0	42.1	126.1	92.3	110.2	114.2	67.2	61.0	23.2	98.5	0.0	776.1
1919	5.7	19.8	41.4	103.0	240.9	87.9	259.4	88.7	82.2	19.1	107.7	14.6	1076.4
1920	0.0	0.4	55.6	25.2	262.3	81.0	60.0	122.8	49.5	39.6	41.3	11.4	749.1
1921	18.2	38.4	18.4	49.3	164.2	137.0	36.9	76.2	27.3	21.6	0.0	55.1	642.6
1922	37.6	8.7	32.0	16.3	65.1	156.0	233.5	197.5	58.0	22.3	1.7	0.0	828.7
1923	4.0	35.1	21.0	4.3	29.8	152.3	65.4	131.2	24.8	78.8	38.2	17.5	602.4
1924	0.0	32.5	59.5	15.8	46.3	76.6	95.0	41.6	20.2	21.9	2.0	2.5	413.9
1925	12.7	29.0	17.5	81.5	26.9	99.8	50.1	35.3	89.2	14.6	31.9	35.2	523.7
1926	12.8	6.0	83.3	60.2	72.2	196.6	96.0	141.3	64.1	57.5	27.9	71.2	889.1
1927	5.8	12.2	13.5	24.5	155.6	64.0	178.8	52.7	145.9	59.0	43.0	1.8	756.8
1928	14.9	28.0	51.0	72.1	155.8	127.5	81.9	30.4	11.4	16.0	32.7	23.6	645.3
1929	28.0	4.0	4.0	18.0	91.0	114.0	42.0	132.0	67.0	20.0	14.0	58.0	592.0
1930	0.0	7.0	10.0	104.0	58.0	136.0	185.0	124.0	22.0	51.0	35.0	79.0	811.0
1931	77.0	1.0	23.0	81.0	50.0	119.0	95.0	106.0	32.0	28.0	23.0	4.0	639.0
1932	4.0	7.0	9.0	109.0	18.0	192.0	138.0	113.0	50.0	56.0	18.0	54.0	768.0
1933	24.0	9.0	25.0	50.0	45.0	127.0	65.0	53.0	54.0	36.0	21.0	29.0	538.0
1934	3.0	13.0	33.0	10.0	93.0	200.0	73.0	35.0	59.0	26.0	29.0	3.0	577.0
1935	5.0	39.0	10.0	26.0	122.0	158.0	80.0	72.0	65.0	56.0	49.0	33.0	715.0
1936	13.0	11.0	29.0	63.0	155.0	100.0	134.0	125.0	42.0	34.0	10.0	53.0	769.0
1937	0.0	41.0	13.0	34.0	98.0	115.0	112.0	154.0	36.0	6.0	25.0	9.0	643.0
1938	9.0	0.0	84.0	22.0	66.0	64.0	174.0	37.0	51.0	48.0	33.0	1.0	589.0
1939	34.0	25.0	0.0	7.0	181.0	142.0	21.0	131.0	65.0	138.0	3.0	12.0	759.0
1940	12.0	66.0	28.0	70.0	166.0	209.0	255.0	12.0	59.0	71.0	16.0	26.0	990.0
1941	0.0	50.0	27.0	61.0	130.0	101.0	277.0	140.0	26.0	190.0	127.0	18.0	1147.0
1942	0.0	8.0	20.0	27.0	64.0	72.0	116.0	147.0	54.0	12.0	39.0	1.0	560.0
1943	0.0	2.0	48.0	27.0	133.0	34.0	63.0	44.0	94.0	14.0	11.0	0.0	470.0
1944	10.0	5.0	7.0	16.0	76.0	169.0	42.0	163.0	27.0	58.0	30.0	0.0	603.0
1945	1.0	29.0	32.0	45.0	144.0	78.0	178.0	115.2	49.0	28.0	30.0	17.0	746.2
1946	30.0	11.0	19.0	38.0	162.0	92.0	69.0	36.0	102.5	18.0	39.0	81.0	697.5
1947	10.0	5.0	24.0	16.0	86.0	190.0	51.0	38.0	75.4	48.0	12.0	18.0	573.4
1948	20.0	3.0	10.0	45.0	101.4	96.0	150.8	42.0	100.0	20.0	2.0	47.0	637.2
1949	0.0	26.0	36.0	39.0	208.0	246.0	56.0	33.0	6.0	15.0	17.0	43.0	725.0
1950	0.0	3.0	42.0	93.0	215.0	169.0	52.0	167.0	84.0	44.0	48.0	12.0	929.0
1951	27.0	48.0	7.0	6.6	261.0	257.0	138.0	35.0	46.0	25.0	65.0	18.0	933.6
1952	0.0	21.0	58.0	1.0	124.0	118.0	85.0	65.0	28.0	50.0	19.0	0.0	569.0
1953	78.0	12.0	19.0	19.0	190.0	89.0	236.0	183.0	161.0	56.0	17.0	17.0	1077.0
1954	4.8	48.0	0.0	80.0	120.0	172.0	199.0	171.0	44.0	33.0	7.0	17.0	895.8
1955	16.0	40.0	2.0	54.0	65.0	125.0	29.0	96.0	38.0	5.0	5.0	55.0	530.0
1956	41.0	6.0	68.0	82.0	98.0	49.0	158.0	58.0	69.0	54.0	6.0	0.0	689.0
1957	42.0	0.0	0.0	30.0	161.0	127.0	192.0	184.0	36.0	43.0	21.0	58.0	894.0
1958	18.0	9.8	10.0	47.0	156.0	139.0	69.0	88.0	131.0	6.0	56.0	0.0	729.8
1959	69.0	1.0	21.0	153.0	129.0	93.0	141.0	80.0	89.0	62.0	2.0	2.0	842.0
1960	29.2	0.0	33.0	24.0	60.0	183.0	122.0	63.0	40.0	83.0	20.0	9.0	666.2
1961	57.0	4.0	66.0	46.0	109.0	180.0	251.0	91.0	142.0	42.0	18.0	2.0	1008.0

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1962	9.0	0.0	13.0	50.0	40.0	163.0	26.0	81.0	54.0	30.0	38.0	11.0	515.0
1963	5.0	7.0	27.0	61.0	62.0	145.0	141.0	131.0	78.0	109.0	69.0	10.0	845.0
1964	18.0	12.0	15.0	15.0	125.0	86.0	63.0	141.0	14.0	5.0	50.0	69.0	612.0
1965	24.0	63.0	11.0	146.0	112.0	152.0	149.0	231.0	25.0	35.0	77.0	32.0	1057.0
1966	0.0	0.0	11.4	79.0	60.9	220.0	191.0	77.0	32.0	56.0	20.0	65.0	812.3
1967	39.0	14.0	13.0	17.0	140.0	67.0	149.0	94.0	63.0	36.0	16.0	13.0	661.0
1968	0.0	17.0	26.0	44.0	12.0	71.0	34.0	56.0	62.0	28.0	23.0	56.0	429.0
MIN	0.0	0.0	0.0	1.0	12.0	34.0	21.0	12.0	6.0	5.0	0.0	0.0	413.9
MAX	78.0	66.0	84.0	165.4	262.3	257.0	277.0	231.0	161.0	190.0	127.0	81.0	1147.0
PROM	17.5	17.5	26.5	51.9	113.2	126.6	117.8	94.1	59.9	40.3	30.3	23.8	720.9
DESV	20.0	18.1	21.2	39.4	60.4	51.2	68.1	50.8	34.8	32.3	26.6	23.6	173.2
CV	1.1	1.0	0.8	0.8	0.5	0.4	0.6	0.5	0.6	0.8	0.9	1.0	0.2

727.

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)

EST 72 HDA EL MORRG

LAT 3801 LON 7157

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1964	-1.0	-1.0	-1.0	-1.0	224.5	337.2	246.0	418.0	156.6	99.5	74.9	452.7	-1.0
1965	50.5	132.5	28.5	304.0	332.0	569.0	438.5	407.0	106.5	172.0	317.0	124.0	2981.5
1966	0.0	10.0	70.7	301.2	260.0	685.5	522.5	383.0	62.5	175.0	50.5	284.5	2805.4
1967	122.5	98.0	50.5	59.0	443.0	287.5	409.5	347.5	216.0	221.0	42.0	9.0	2305.5
1968	6.0	88.0	92.5	133.0	75.0	239.0	230.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
MIN	0.0	10.0	28.5	59.0	75.0	239.0	230.0	347.5	62.5	99.5	42.0	9.0	2305.5
MAX	122.5	132.5	92.5	304.0	443.0	685.5	522.5	418.0	216.0	221.0	317.0	452.7	2981.5
PROM	44.8	82.1	60.5	199.3	266.9	423.6	369.3	388.9	135.4	166.9	121.1	217.5	2697.5
DESV	56.5	51.7	27.4	123.1	135.9	193.5	127.0	31.2	66.1	50.2	131.3	193.2	350.7
CV	1.3	0.6	0.5	0.6	0.5	0.5	0.3	0.1	0.5	0.3	1.1	0.9	0.1

728.

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

 ZONA 7 HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 73 RENAICO EN JAUJA
 LAT 3801 LON 7157

729.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1964	55.0	59.0	22.0	64.0	237.0	325.0	246.0	426.0	147.0	100.0	95.0	433.0	2213.0
1965	50.0	132.0	28.0	304.0	332.0	560.0	438.0	407.0	106.0	172.0	317.0	124.0	2970.0
1966	0.0	10.0	71.0	343.0	220.0	677.0	525.0	380.0	61.0	175.0	50.0	284.0	2796.0

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO
EST 74 LOS GUINDOS
LAT 3803 LON 7149

SUP 24262 (KM2)

730.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1916	87.0	10.0	324.0	305.0	399.0	120.0	267.0	437.0	470.0	83.0	328.0	149.0	2979.0
1917	26.0	185.0	2.0	60.0	265.0	518.0	107.0	255.0	539.0	35.0	53.0	207.0	2252.0
1918	155.0	0.0	202.0	334.0	543.0	503.0	533.0	404.0	249.0	102.0	644.0	19.0	3688.0
1919	37.0	45.7	65.4	279.5	1170.0	442.9	1045.0	356.9	514.0	86.6	458.3	107.8	4609.8
1920	10.3	0.0	356.3	141.3	1197.0	444.6	203.8	414.9	93.5	181.0	475.4	46.3	3564.9
1921	166.3	162.4	112.3	795.9	1159.0	436.6	217.7	659.1	97.1	91.7	19.6	288.4	4205.1
1922	169.9	21.3	360.5	53.8	289.3	632.9	1012.0	552.1	230.3	262.0	35.4	0.0	3620.3
1923	48.5	154.4	227.0	45.0	128.6	566.7	408.6	575.4	234.3	367.8	108.5	99.7	2964.5
1924	0.0	143.4	235.0	92.4	271.9	549.5	444.7	156.6	111.0	56.0	17.9	7.9	2086.3
1925	45.2	121.7	122.2	285.3	252.2	592.4	326.5	449.6	678.9	67.1	203.2	141.3	3291.6
1926	59.8	16.7	426.5	291.5	418.3	1016.0	655.7	468.4	407.3	217.5	149.9	222.0	4349.8
1927	27.5	61.4	111.6	195.2	677.8	647.7	747.9	496.6	728.2	296.4	157.6	34.2	4182.1
1928	60.0	56.5	207.5	413.5	531.6	396.8	610.0	187.0	66.2	112.5	152.8	187.7	2982.1
1929	232.0	16.0	22.0	94.0	310.0	802.0	294.0	663.0	399.0	154.0	119.0	319.0	3424.0
1930	8.0	20.0	114.0	404.0	439.0	1159.0	1147.0	420.0	212.0	437.0	247.0	338.0	4945.0
1935	-1.0	-1.0	-1.0	-1.0	767.0	758.0	421.0	449.0	235.0	143.0	290.0	159.0	-1.0
1936	138.0	15.0	158.0	557.0	929.0	733.0	591.0	364.0	342.0	136.0	113.0	181.0	4257.0
1937	6.0	246.0	116.0	157.0	573.0	580.0	713.0	1045.0	155.0	60.0	144.0	23.0	3818.0
1938	117.0	7.0	230.0	136.0	108.0	483.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1939	161.0	241.0	12.0	49.0	983.0	714.0	418.0	896.0	243.0	641.0	43.0	67.0	4468.0
1940	66.0	134.0	81.0	570.0	1248.0	1381.0	1313.0	122.0	219.0	217.0	181.0	214.0	5746.0
1941	0.0	78.0	127.0	113.0	625.0	679.0	1138.0	739.0	73.0	152.0	470.0	180.0	4374.0
1942	3.0	112.0	105.0	187.0	430.0	214.0	878.0	592.0	295.0	96.0	174.0	36.0	3122.0
1943	3.0	27.0	265.0	93.0	619.0	164.0	561.0	261.0	630.0	111.0	94.0	1.0	2829.0
1944	25.0	35.0	45.0	97.0	671.6	791.3	478.3	1055.0	234.1	523.2	141.5	0.0	4097.9
1945	10.7	307.6	296.6	232.6	909.3	352.4	705.4	679.9	412.5	120.5	361.8	141.5	4530.8
1946	180.4	142.6	88.7	208.2	559.1	376.8	603.9	255.7	571.4	152.9	347.5	58.1	3545.3
1947	76.2	3.5	48.3	102.3	307.0	904.6	416.7	320.6	442.6	72.4	89.7	146.9	2930.8
1948	121.6	1.5	33.2	486.2	472.2	570.2	929.9	189.5	855.9	263.8	48.9	208.9	4181.8
1949	0.0	185.2	289.7	221.2	1169.0	916.5	198.3	166.0	82.8	20.1	117.6	257.6	3624.8
1950	0.0	12.7	186.9	547.6	1046.0	860.4	281.5	991.6	390.2	164.8	355.9	92.6	4930.8
1951	357.5	95.0	58.0	17.7	945.8	1061.0	927.4	404.8	-1.0	108.5	239.0	138.8	-1.0
1952	0.0	86.4	490.9	28.6	634.9	384.0	417.2	280.8	211.1	278.1	98.2	0.0	2910.2
1953	303.0	59.1	76.4	227.5	898.9	289.7	808.9	827.4	827.4	159.8	0.0	46.0	0.0
MIN	0.0	0.0	2.0	17.7	108.0	120.0	107.0	122.0	66.2	20.1	0.0	0.0	0.0
MAX	357.5	307.6	490.9	795.9	1248.0	1381.0	1313.0	1055.0	855.9	641.0	644.0	338.0	5746.0
PROM	81.8	84.9	169.6	237.0	645.5	618.9	600.6	488.9	351.6	180.9	196.3	124.8	3629.4
DESV	92.2	82.7	126.1	188.7	334.5	284.7	313.9	260.4	223.4	140.9	157.3	98.0	****
CV	1.1	1.0	0.7	0.8	0.5	0.5	0.5	0.5	0.6	0.8	0.8	0.8	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO

SUP 24262 (KM2)

731.

EST 76 LAGUNA DEL MALLECO

LAT 3812 LON 7148

ANO ENE FEB MAR ABR MAY JUN JUL AG SEP OCT NOV DIC TOT

1955 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 21.0 12.0 412.0 -1.0

1956 155.0 43.0 357.0 351.0 404.0 269.0 641.0 176.0 193.0 127.0 96.0 16.0 2828.0

1957 79.0 0.0 34.0 169.0 580.0 477.0 777.0 780.0 210.0 190.0 164.0 145.0 3605.0

1958 65.0 35.0 25.0 275.0 889.0 767.0 473.0 546.0 281.0 54.0 228.0 0.0 3638.0

1959 211.0 43.0 219.0 781.0 429.0 442.0 764.0 403.0 483.0 287.0 26.0 4.0 4092.0

1960 126.0 2.0 131.0 135.0 279.0 783.0 451.0 233.0 215.0 437.0 79.0 117.0 2988.0

1961 230.0 29.0 164.0 170.0 534.0 531.0 971.0 598.0 555.0 257.0 61.3 20.6 4120.9

1962 52.5 0.0 69.0 199.3 147.5 642.6 86.5 586.9 208.7 80.1 120.4 20.1 2213.6

1963 45.4 37.4 166.4 191.3 271.4 555.0 625.0 1058.0 363.7 335.0 266.9 57.0 3973.4

1964 188.8 143.5 24.0 163.5 327.4 505.0 274.8 527.6 309.9 168.5 118.1 310.9 3062.0

1965 62.0 271.9 23.1 482.7 272.5 905.5 703.7 594.9 190.6 263.8 451.8 171.1 4393.6

1966 2.3 20.6 146.0 475.7 509.1 852.7 710.5 606.7 126.4 72.0 80.5 430.0 4032.5

1967 180.0 113.3 102.0 69.7 653.8 266.3 501.1 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0

1968 -1.0 233.0 120.1 82.8 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0

MIN 2.3 0.0 23.1 69.7 147.5 266.3 86.5 176.0 126.4 21.0 12.0 0.0 2213.6

MAX 230.0 271.9 357.0 781.0 889.0 905.5 971.0 1058.0 555.0 437.0 451.8 430.0 4393.6

PROM 116.4 74.7 121.6 272.8 441.4 583.0 581.5 555.5 285.1 191.0 142.0 142.0 3540.6

DESV 75.0 89.7 95.2 202.3 205.1 211.9 240.2 241.3 133.3 127.5 123.3 158.9 679.3

CV 0.6 1.2 0.8 0.7 0.5 0.4 0.4 0.4 0.5 0.7 0.9 1.1 0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1962	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	175.3	136.5	139.0	24.5	-1.0
1964	55.0	39.0	30.0	32.0	212.0	233.0	121.0	129.0	119.0	78.0	50.0	140.0	1238.0
1965	35.0	144.0	12.0	208.0	224.0	411.0	343.0	382.0	68.0	138.0	246.0	102.0	2513.0
1966	1.0	16.0	76.0	152.0	210.0	388.0	262.0	202.0	52.0	106.0	60.0	258.0	1783.0
1967	116.0	42.0	29.0	37.0	279.0	112.0	252.0	270.0	131.0	158.0	68.0	84.0	1578.0
1968	1.0	77.0	42.0	66.0	83.0	98.0	91.0	127.0	175.0	-1.0	95.0	169.0	-1.0
MIN	0.0	0.6	0.0	11.0	65.0	36.0	53.7	47.0	16.0	11.1	7.7	0.0	1181.8
MAX	199.5	146.0	333.6	386.0	734.1	695.0	624.2	693.6	421.0	237.0	376.5	258.0	3394.5
PROM	42.9	51.5	84.0	119.1	302.0	330.7	297.3	255.9	157.2	90.6	106.2	78.8	1931.9
DESV	43.3	42.8	72.3	90.4	193.2	159.9	152.8	130.3	103.9	56.5	88.5	60.9	474.0
CV	1.0	0.8	0.9	0.8	0.6	0.5	0.5	0.5	0.7	0.6	0.8	0.8	0.2

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7 HOYA 313 BIOBIO SUP 24262 (KM2)

EST 79 CONCEP ENDESA

LAT 3650 LON 7303 ALT 15 (MTS)

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1964	40.5	8.0	1.0	24.0	64.7	136.2	105.7	205.9	54.0	45.5	68.0	139.7	893.2
1965	35.0	39.5	12.1	109.2	139.5	189.5	358.0	329.0	-1.0	81.0	-1.0	45.0	-1.0
1966	1.0	1.0	16.0	123.4	127.5	427.0	391.5	218.0	31.5	49.5	23.0	116.0	1525.4
1967	32.0	51.0	12.0	17.0	258.5	152.0	228.0	147.5	77.0	60.5	26.0	28.5	1090.0
1968	2.0	28.5	24.0	73.5	39.0	203.5	72.9	94.6	122.7	54.9	68.3	28.5	812.4
MIN	1.0	1.0	1.0	17.0	39.0	136.2	72.9	94.6	31.5	45.5	23.0	28.5	812.4
MAX	40.5	51.0	24.0	123.4	258.5	427.0	391.5	329.0	122.7	81.0	68.3	139.7	1525.4
PROM	22.1	25.6	13.0	69.4	125.8	221.6	231.2	199.0	71.3	58.3	46.3	71.5	1080.2
DESV	19.1	21.0	8.3	48.3	85.2	118.0	143.7	87.8	39.0	13.9	25.2	52.5	318.8
CV	0.9	0.8	0.6	0.7	0.7	0.5	0.6	0.4	0.5	0.2	0.5	0.7	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS

PRECIPITACIONES (MM)

ZONA 7

HOYA 313 BIO BIO SUP 24262 (KM2)
 EST 80 DESAGUE LAGUNA GALLETUE
 LAT 3841 LON 7115

735.

ANO	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AG	SEP	OCT	NOV	DIC	TOT
1964	41.0	59.0	17.0	34.5	207.5	172.0	113.5	186.5	30.5	51.5	28.0	195.5	1136.5
1965	58.0	95.5	15.0	212.0	237.5	430.5	299.5	171.5	22.5	113.5	204.5	137.0	1997.0
1966	3.5	20.0	76.0	155.5	201.0	108.5	167.5	95.0	41.5	97.0	40.0	267.0	1272.5
1967	96.0	53.5	28.5	27.0	270.0	111.5	150.0	219.5	158.5	203.5	57.5	31.5	1407.0
1968	0.0	62.5	48.5	65.0	67.5	60.0	85.5	89.2	183.1	38.6	92.8	149.1	941.8
MIN	0.0	20.0	15.0	27.0	67.5	60.0	85.5	89.2	22.5	38.6	28.0	31.5	941.8
MAX	96.0	95.5	76.0	212.0	270.0	430.5	299.5	219.5	183.1	203.5	204.5	267.0	1997.0
PROM	39.7	58.1	37.0	98.8	196.7	176.5	163.2	152.3	87.2	100.8	84.6	156.0	1351.0
DESV	40.0	26.9	25.5	81.3	77.2	147.4	82.6	57.7	77.1	65.2	71.4	86.3	400.0
CV	1.0	0.5	0.7	0.8	0.4	0.8	0.5	0.4	0.9	0.6	0.8	0.6	0.3

NOTA: VALORES NEGATIVOS INDICAN DATOS DESCONOCIDOS