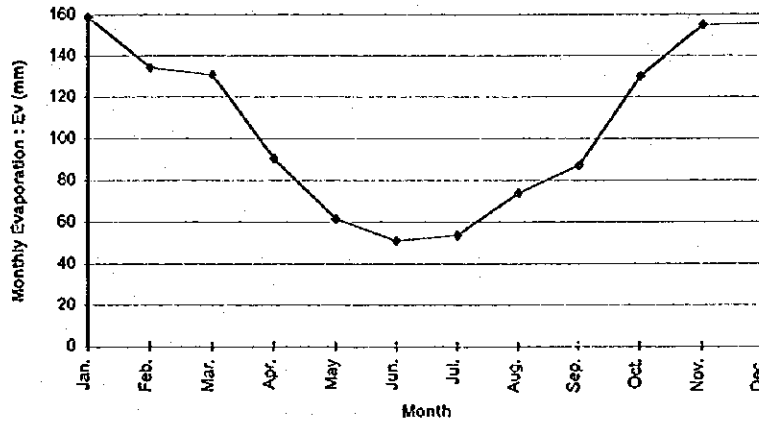


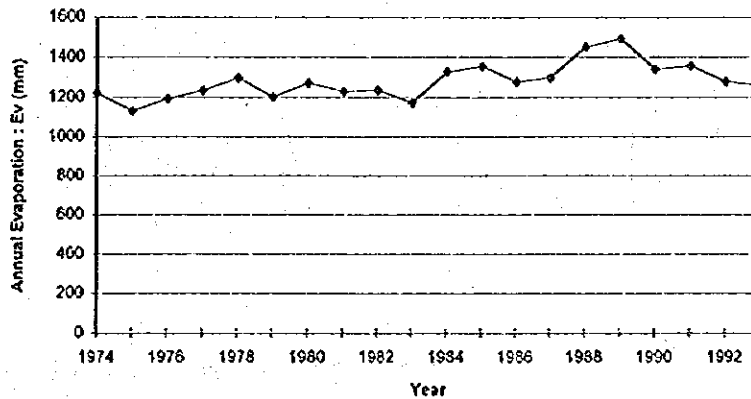
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02449013 (No.11)
 St. Name Cerro Azul

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	161.3	148.0	121.0	81.3	62.4	44.7	51.2	67.8	86.1	121.8	158.0	119.2	101.9	1222.7
2 1975	152.3	125.2	120.3	85.1	53.5	39.8	48.0	63.3	83.5	108.5	121.8	132.8	94.3	1132.1
3 1976	137.6	127.7	117.5	81.9	50.8	41.1	45.7	64.0	74.4	111.1	182.0	159.6	99.4	1193.2
4 1977	136.9	156.8	118.4	82.2	64.5	45.5	59.5	73.3	92.1	132.6	119.8	153.5	103.0	1235.1
5 1978	167.9	143.9	123.2	100.8	65.1	47.1	49.7	68.7	96.9	145.0	142.8	147.0	108.2	1293.1
6 1979	157.0	136.0	128.4	84.9	56.3	40.0	46.0	73.3	84.5	125.4	132.5	139.3	100.3	1203.6
7 1980	160.4	121.1	140.9	93.1	61.0	43.0	47.0	61.4	83.9	162.9	134.7	157.6	106.0	1271.9
8 1981	142.5	141.9	129.0	94.1	67.0	44.6	49.2	71.0	94.0	105.2	154.5	136.8	102.5	1229.8
9 1982	157.9	120.7	119.7	93.6	64.3	44.7	52.0	105.7	92.4	117.3	119.4	150.0	103.1	1237.5
10 1983	165.3	123.7	109.5	77.6	55.7	36.9	49.7	66.2	69.2	106.7	157.7	156.4	97.9	1174.5
11 1984	177.1	170.9	154.8	82.3	65.0	81.1	50.4	54.9	92.4	126.0	125.9	147.5	110.7	1328.2
12 1985	160.6	124.6	123.2	86.8	61.2	43.9	52.8	79.5	95.1	182.0	166.1	179.8	112.9	1355.3
13 1986	171.8	119.5	127.7	94.4	60.3	90.5	48.5	67.9	83.3	135.7	131.8	146.6	106.5	1277.8
14 1987	169.7	115.4	181.5	84.7	55.9	39.2	54.3	65.1	77.1	104.9	192.0	158.8	108.2	1298.5
15 1988	181.7	121.6	145.3	82.7	56.7	71.9	60.2	82.8	96.8	130.7	223.1	197.5	120.9	1450.8
16 1989	143.1	126.7	133.7	105.4	70.1	81.0	99.8	77.9	94.7	197.5	206.1	156.6	124.4	1492.6
17 1990	130.5	162.6	176.5	104.9	87.4	48.6	51.0	69.6	90.2	125.0	145.3	169.7	111.8	1341.3
18 1991	170.1	150.6	105.1	92.0	88.9	44.7	55.2	129.6	94.7	122.5	160.6	163.2	113.1	1357.2
19 1992	183.3	135.7	111.6	94.5	57.7	50.5	49.9	65.5	88.3	124.7	143.5	173.9	106.6	1279.1
20 1993	147.1	111.9	126.5	105.2	66.6	44.9	56.6	69.7	73.8	115.0	179.3	165.5	105.2	1262.1
Mean	158.7	134.2	130.7	90.6	61.5	51.2	53.7	73.8	87.2	130.0	154.8	155.6	106.8	1282.1

Monthly Mean Evaporatio (No. 11)
 St. No. 02449013 Cerro Azul
 1974 - 1993 (20 Years)



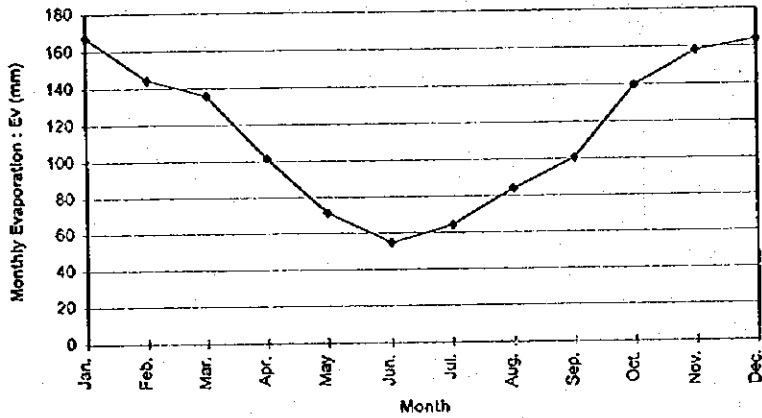
Annual Evaporation (No. 11)
 St. No. 02449013 Cerro Azul
 1974 - 1993 (20 Years)



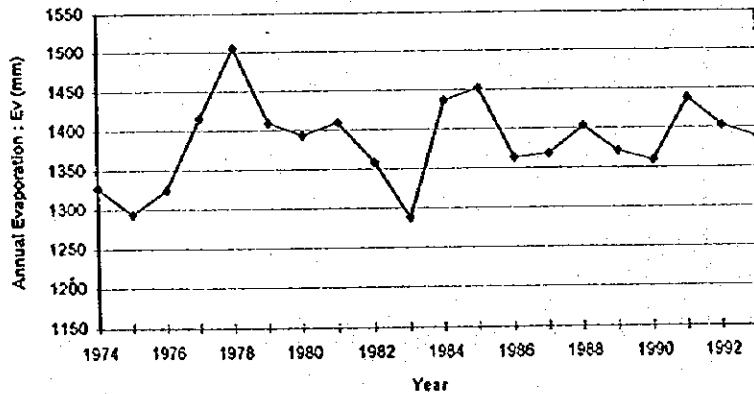
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02450011 (No.12)
 St. Name Telemaco

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	143.8	143.2	134.0	102.9	73.7	49.9	62.1	74.0	99.6	127.2	160.4	158.7	110.6	1327.5
2 1975	167.8	131.4	129.7	97.3	66.9	55.7	57.7	80.9	90.4	114.7	148.8	152.3	107.8	1293.8
3 1976	150.4	144.1	138.5	96.8	65.3	49.3	57.5	74.8	80.3	139.3	166.5	161.8	110.4	1324.5
4 1977	147.1	159.3	136.0	99.3	78.2	56.1	77.7	95.5	107.9	157.6	138.0	162.7	117.9	1415.4
5 1978	180.3	166.8	138.6	124.8	75.8	60.6	66.6	80.1	105.7	163.0	165.1	177.8	125.4	1505.0
6 1979	187.4	158.4	146.0	99.1	65.8	58.5	59.1	88.1	95.0	146.9	157.6	146.2	117.4	1409.2
7 1980	171.8	139.5	150.4	103.1	73.4	57.8	64.7	82.4	93.4	140.0	156.7	160.7	116.1	1393.7
8 1981	156.9	147.5	143.7	108.8	81.8	54.5	69.8	92.1	119.4	126.0	162.8	146.0	117.4	1409.1
9 1982	181.0	138.9	132.9	106.8	78.3	52.9	64.3	80.7	117.0	127.3	122.6	157.8	113.2	1358.6
10 1983	162.7	130.0	125.1	84.2	64.3	44.9	62.1	89.8	80.1	124.7	149.9	170.0	107.3	1287.8
11 1984	185.3	184.5	132.2	95.8	78.4	61.1	69.4	78.9	105.4	150.3	147.3	147.1	119.7	1436.9
12 1985	197.1	132.1	126.1	95.2	73.8	53.9	63.1	91.3	99.3	149.9	187.0	193.1	121.0	1451.8
13 1986	180.1	120.9	135.2	110.9	67.4	61.7	59.4	78.4	104.4	153.0	149.7	142.4	113.6	1363.4
14 1987	163.4	158.0	146.5	93.8	62.5	52.9	73.6	81.7	95.7	124.3	150.8	163.0	114.0	1368.2
15 1988	169.1	130.8	143.7	90.9	57.0	48.7	68.8	97.0	115.8	143.1	183.2	149.9	116.9	1402.9
16 1989	128.2	124.0	144.2	108.2	75.7	51.1	64.3	84.1	105.1	149.9	167.0	169.4	114.3	1371.1
17 1990	146.2	155.4	134.8	106.1	74.2	53.0	53.0	82.8	101.6	140.6	140.3	171.3	113.3	1359.3
18 1991	179.3	159.2	126.3	99.6	77.2	58.3	66.6	85.2	104.6	137.6	173.2	170.6	119.8	1437.8
19 1992	199.3	151.8	115.6	96.4	64.4	59.5	56.7	78.6	99.0	137.1	150.5	193.9	116.9	1402.8
20 1993	158.9	114.3	135.8	112.8	73.6	53.3	64.1	84.7	88.1	139.0	185.2	179.3	115.7	1338.8
Mean	167.3	144.4	135.9	101.6	71.3	54.7	64.0	84.1	100.5	139.8	158.1	163.6	115.4	1385.4

Monthly Mean Evaporatio (No. 12)
 St. No. 02450011 Telemaco
 1974 - 1993 (20 Years)



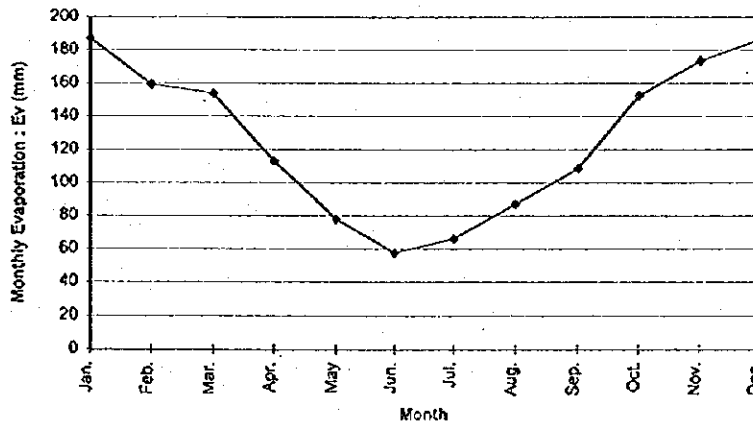
Annual Evaporation (No. 12)
 St. No. 02450011 Telemaco
 1974 - 1993 (20 Years)



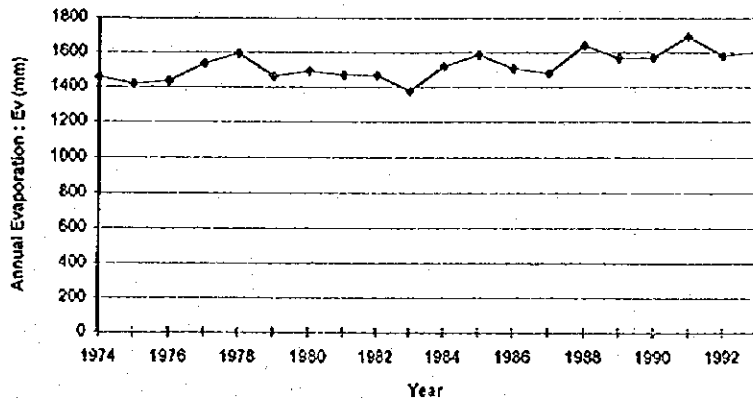
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02451052 (No.13)
 St. Name: Candido Abreu

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	159.1	153.5	148.0	112.7	79.4	52.3	66.2	79.8	108.9	140.3	178.1	173.9	121.4	1457.0
2 1975	186.5	145.1	143.1	106.3	71.7	59.0	61.1	87.6	98.4	126.1	164.9	158.9	118.2	1418.6
3 1976	166.8	159.6	153.1	105.6	69.8	51.6	60.9	80.6	86.9	152.0	166.8	182.2	119.7	1435.9
4 1977	152.1	179.4	153.7	121.0	83.6	63.6	83.4	83.7	120.5	164.0	150.5	180.1	128.0	1535.4
5 1978	212.3	181.0	164.3	123.2	81.4	56.2	62.1	71.2	110.0	157.5	169.6	205.3	132.8	1593.9
6 1979	203.3	166.0	147.3	97.6	64.2	54.7	59.7	94.1	103.2	147.9	172.5	153.8	122.0	1464.3
7 1980	192.1	154.1	168.2	118.3	78.4	55.7	58.4	84.7	94.2	145.0	155.7	186.7	124.3	1491.5
8 1981	179.5	147.4	163.7	115.0	93.5	53.9	63.8	89.5	111.4	128.7	165.7	158.5	122.6	1470.7
9 1982	215.7	148.9	141.6	121.4	81.9	48.2	68.5	87.7	105.8	141.9	127.6	177.9	122.3	1468.1
10 1983	171.1	141.8	145.6	96.3	66.2	41.1	50.1	86.9	83.8	136.2	166.1	192.9	114.8	1378.0
11 1984	182.7	180.3	145.0	102.4	81.2	58.0	73.6	76.6	118.7	166.6	156.4	178.9	126.7	1520.3
12 1985	215.0	156.3	143.9	105.8	84.9	59.9	62.2	79.9	109.3	158.6	199.8	213.4	132.3	1587.6
13 1986	194.2	145.6	155.8	111.2	71.5	66.4	65.9	85.3	108.6	155.1	168.8	179.3	125.6	1507.7
14 1987	194.6	142.7	162.0	107.4	61.7	54.7	69.1	80.3	106.6	139.1	176.8	168.2	123.3	1480.2
15 1988	199.5	144.3	170.1	113.0	63.5	63.8	75.7	108.8	134.6	169.4	212.9	179.8	136.7	1640.4
16 1989	141.5	151.3	155.9	117.7	91.8	58.4	69.1	94.0	110.3	179.8	195.4	201.2	130.6	1567.3
17 1990	161.9	172.2	156.0	136.1	79.3	58.7	61.2	90.8	117.6	168.0	187.6	203.2	130.9	1570.5
18 1991	219.1	177.4	163.4	125.0	88.7	64.5	80.0	102.0	124.9	159.6	203.6	185.1	141.1	1693.4
19 1992	212.9	176.0	134.6	103.2	72.5	68.1	62.4	86.0	112.7	154.7	182.0	216.3	131.8	1581.3
20 1993	182.9	156.8	160.5	124.7	87.9	64.0	67.4	93.9	105.7	165.0	189.2	201.9	133.4	1500.7
Mean	187.0	159.2	153.8	113.2	77.9	57.6	66.0	87.2	108.7	152.7	173.5	186.4	126.9	1523.1

Monthly Mean Evaporation (No. 13)
 St. No. 02451052 Candido Abreu
 1974 - 1993 (20 Years)



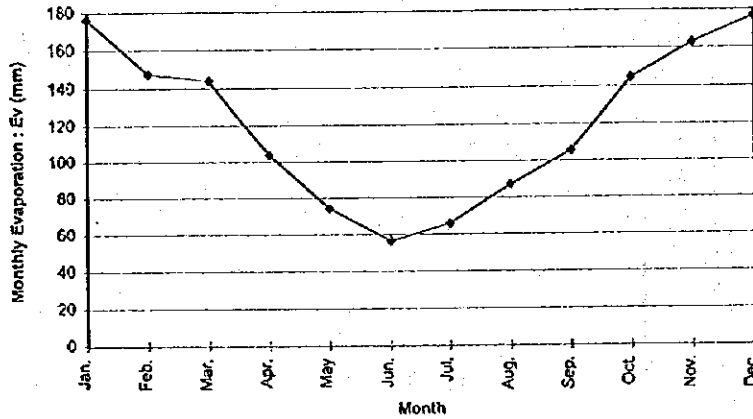
Annual Evaporation (No. 13)
 St. No. 02451052 Candido Abreu
 1974 - 1993 (20 Years)



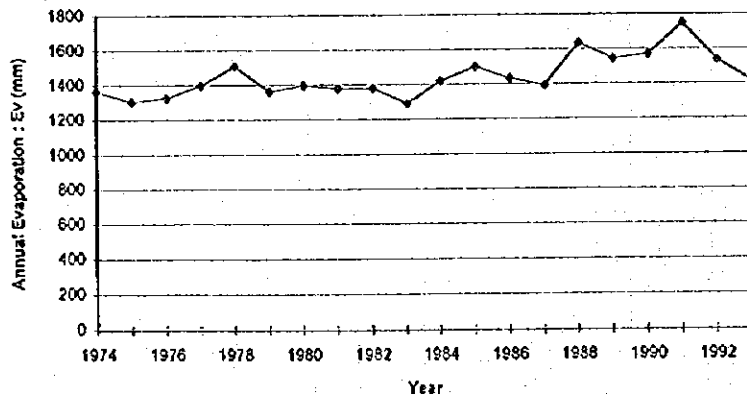
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02452050 (No.14)
 St. Name Nova Cantu

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	146.9	144.0	132.2	102.3	75.5	49.6	65.9	76.4	107.3	131.2	167.6	153.5	113.6	1363.3
2 1975	154.1	135.9	130.8	95.9	69.1	54.2	59.5	85.9	89.3	121.2	154.9	154.5	108.8	1305.2
3 1976	144.6	139.9	143.9	100.6	64.7	47.3	57.0	80.0	84.0	137.6	152.8	173.3	110.5	1325.6
4 1977	135.9	165.3	135.3	103.6	77.2	59.0	73.0	78.2	110.1	149.2	137.4	172.8	116.5	1397.9
5 1978	195.5	171.5	147.7	118.0	77.7	55.6	63.9	75.6	105.6	148.7	157.9	188.7	125.5	1506.3
6 1979	189.2	149.5	139.4	88.6	63.0	62.5	57.6	86.3	96.9	131.6	155.8	140.9	113.4	1361.2
7 1980	187.8	140.4	149.0	111.7	71.2	52.0	55.7	81.8	91.9	130.8	151.3	170.3	116.2	1394.0
8 1981	163.5	130.1	150.6	98.6	86.4	50.4	75.8	85.6	106.1	126.2	155.4	148.1	114.7	1376.8
9 1982	205.8	127.8	141.2	116.8	73.8	45.8	64.4	82.2	103.6	135.4	119.4	161.5	114.9	1378.5
10 1983	168.1	130.9	138.5	84.8	59.8	37.8	46.4	83.7	79.6	124.1	155.1	182.0	107.6	1290.7
11 1984	175.3	172.2	130.8	94.0	74.8	54.2	67.9	73.1	115.0	153.0	139.5	168.4	118.3	1419.1
12 1985	205.0	138.2	134.1	93.6	79.7	57.3	59.7	81.1	103.2	148.7	190.9	206.9	124.9	1498.3
13 1986	190.7	141.1	140.7	101.0	65.3	63.8	64.2	83.8	105.3	147.9	159.1	170.0	119.4	1432.7
14 1987	183.7	133.0	160.3	93.2	56.0	52.3	63.7	76.8	100.8	132.6	166.6	174.6	116.1	1393.6
15 1988	194.7	140.7	167.4	100.6	62.1	59.8	81.3	120.7	142.2	167.6	210.7	186.9	136.2	1634.6
16 1989	133.7	133.6	151.5	113.5	87.4	57.6	76.9	101.2	115.5	186.9	194.1	192.7	128.7	1544.5
17 1990	157.3	172.2	156.2	120.3	88.0	63.8	63.3	104.6	116.6	165.8	157.9	203.2	130.8	1569.1
18 1991	216.4	180.9	150.1	121.3	97.7	74.6	95.5	111.6	135.5	151.3	207.3	187.5	145.6	1749.9
19 1992	211.5	161.3	127.6	106.4	77.6	76.0	66.3	91.8	113.0	152.6	153.5	199.7	128.1	1537.3
20 1993	165.1	144.1	142.2	112.2	76.8	53.0	56.7	82.4	85.7	140.0	168.5	184.4	117.6	1411.0
Mean	176.3	147.6	144.0	103.8	74.2	56.4	65.7	87.1	105.4	144.6	162.8	175.5	120.4	1444.5

Monthly Mean Evaporation (No. 14)
 St. No. 02452050 Nova Cantu
 1974 - 1993 (20 Years)



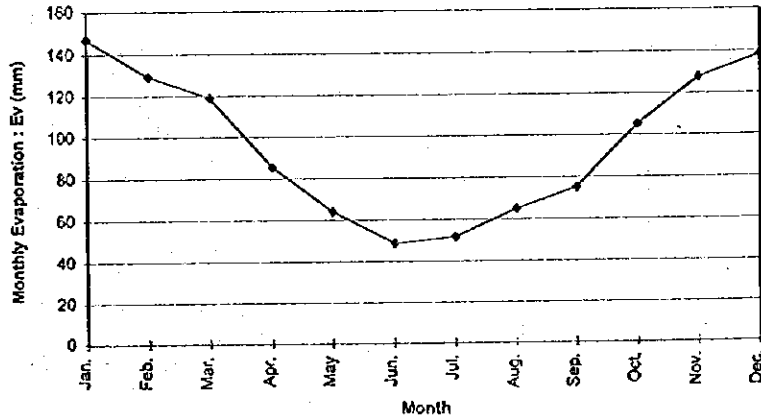
Annual Evaporation (No. 14)
 St. No. 02452050 Nova Cantu
 1974 - 1993 (20 Years)



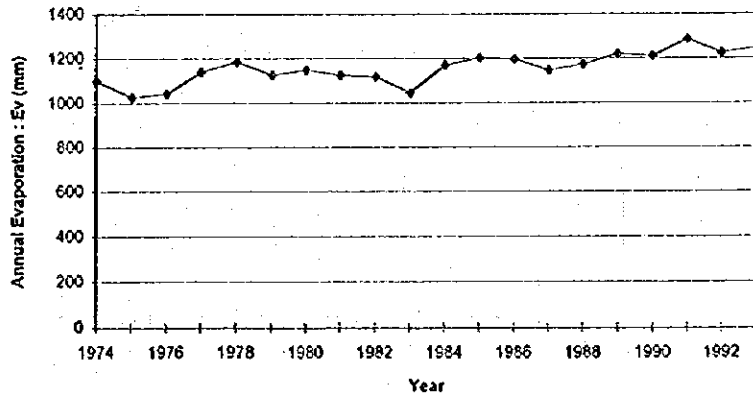
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02453003 (No.15)
 St. Name Palotina

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	132.3	134.3	112.4	74.6	65.9	42.0	53.2	70.0	68.5	104.7	128.6	114.1	91.7	1100.4
2 1975	130.5	119.0	111.1	69.4	51.9	45.5	48.1	51.4	64.9	98.2	116.7	115.8	85.7	1028.4
3 1976	118.1	114.0	117.5	63.8	48.1	42.1	42.5	51.2	67.0	95.2	132.3	148.9	87.0	1043.5
4 1977	135.2	161.6	110.3	71.7	60.5	44.5	57.7	62.6	77.4	109.8	97.2	151.5	95.0	1140.0
5 1978	151.9	132.7	120.3	95.0	72.0	48.5	52.5	64.8	82.1	116.6	115.7	132.0	93.8	1185.0
6 1979	128.1	136.7	114.5	82.6	62.4	43.2	51.7	65.2	77.7	103.0	124.9	131.8	93.9	1126.9
7 1980	153.3	114.1	149.4	96.4	70.5	51.4	47.2	57.5	79.3	93.1	110.3	125.7	95.7	1143.1
8 1981	120.5	136.5	114.7	85.8	74.5	47.3	53.3	67.6	89.3	90.6	114.3	132.0	93.8	1126.2
9 1982	140.3	123.7	100.5	84.8	66.0	48.0	55.0	65.0	79.8	108.8	105.1	141.8	93.2	1118.7
10 1983	145.5	107.2	97.2	68.6	43.8	40.6	43.9	62.1	60.3	91.4	144.5	135.2	87.3	1047.1
11 1984	171.9	167.6	111.1	81.7	68.2	53.3	53.8	53.5	85.9	106.1	107.0	110.1	97.5	1170.2
12 1985	141.0	115.1	116.5	83.2	75.5	54.0	52.5	69.5	70.7	119.7	140.2	164.3	100.2	1202.1
13 1986	171.3	119.1	119.5	92.2	66.7	56.3	52.7	73.3	75.2	118.5	119.7	131.5	99.7	1158.8
14 1987	159.4	120.2	142.9	84.7	40.4	47.2	51.6	66.3	70.4	93.0	128.6	142.9	95.6	1147.5
15 1988	185.1	105.8	143.6	78.2	57.6	58.8	50.4	70.1	64.8	94.4	146.9	116.6	97.7	1172.3
16 1989	139.1	125.6	123.4	98.8	71.0	51.0	56.8	72.8	79.1	116.6	152.9	132.1	101.6	1219.2
17 1990	132.4	157.0	125.2	99.7	73.3	52.7	48.8	67.7	81.4	101.0	118.2	157.4	100.9	1210.6
18 1991	150.1	142.7	108.8	96.4	79.2	50.5	62.5	71.2	87.0	115.4	148.1	173.2	107.1	1285.2
19 1992	178.5	131.3	116.9	98.9	60.5	51.6	45.6	57.7	74.0	117.3	131.0	162.1	102.1	1225.4
20 1993	154.7	122.8	124.1	102.0	67.7	49.2	58.0	73.0	69.0	102.6	174.4	148.5	103.8	1245.1
Mean	147.0	129.3	119.0	85.4	64.1	48.9	51.8	64.9	75.2	105.2	127.8	138.4	96.4	1156.5

Monthly Mean Evaporatio (No. 15)
 St. No. 02453003 Palotina
 1974 - 1993 (20 Years)



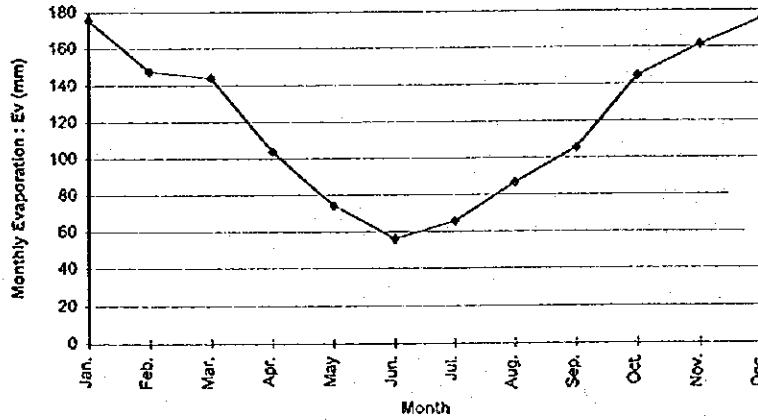
Annual Evaporation (No. 15)
 St. No. 02453003 Palotina
 1974 - 1993 (20 Years)



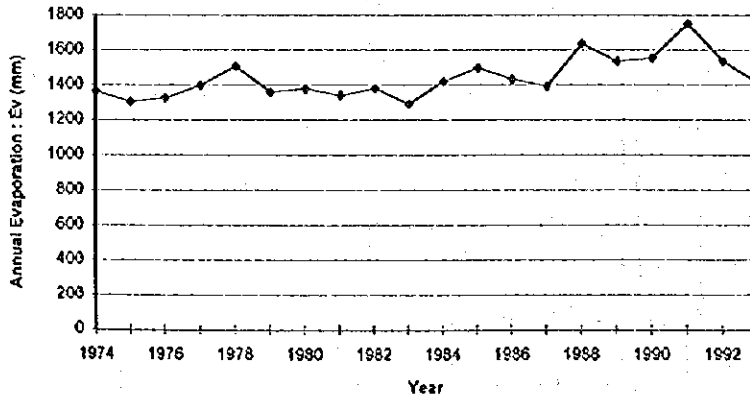
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02453023 (No.16)
 St. Name Cascavel

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	146.9	144.0	132.2	102.3	76.5	49.6	65.9	76.4	107.3	131.2	167.6	163.5	113.6	1363.3
2 1975	154.1	135.9	130.8	95.9	69.1	54.2	59.5	85.9	89.3	121.2	154.9	154.5	108.8	1305.2
3 1976	144.0	139.9	143.9	100.6	64.7	47.3	57.0	80.0	84.0	137.6	152.8	173.3	110.5	1325.6
4 1977	136.9	165.3	135.3	103.6	77.2	59.0	73.0	78.2	110.1	149.2	137.4	172.8	116.5	1397.9
5 1978	195.5	171.5	147.7	118.0	77.7	55.6	63.9	75.6	105.6	148.7	157.9	188.7	125.5	1506.3
6 1979	189.2	149.5	139.4	88.6	63.0	59.1	57.6	86.3	96.9	131.6	155.8	140.9	113.2	1357.9
7 1980	187.8	140.4	149.0	111.7	71.2	52.0	55.7	81.8	91.9	130.8	151.3	153.2	114.7	1376.9
8 1981	147.3	130.1	150.6	98.6	88.4	50.4	70.7	85.6	106.1	126.2	140.3	148.1	111.7	1340.3
9 1982	205.8	127.8	141.2	116.8	73.8	46.8	64.4	82.2	103.6	135.4	119.4	161.5	114.9	1378.5
10 1983	168.1	130.9	138.5	84.8	59.8	37.8	46.4	83.7	79.6	124.1	155.1	182.0	107.6	1290.7
11 1984	175.3	172.2	130.8	94.0	74.8	54.2	67.9	73.1	115.0	153.0	139.5	168.4	118.3	1419.1
12 1985	205.0	138.2	134.1	93.6	79.7	57.3	59.7	81.1	103.2	148.7	190.9	206.9	124.9	1498.3
13 1986	190.7	141.1	140.7	101.0	65.3	63.8	64.2	83.8	105.3	147.9	159.1	170.0	119.4	1432.7
14 1987	183.7	133.0	160.3	93.2	56.0	52.3	63.7	76.8	100.8	132.6	166.6	174.6	116.1	1393.6
15 1988	194.7	140.7	167.4	100.6	62.1	59.8	81.3	120.7	142.2	167.6	210.7	186.9	136.2	1634.6
16 1989	133.7	133.6	151.5	113.5	87.4	57.6	76.9	92.9	115.5	186.9	194.1	192.7	128.0	1536.2
17 1990	157.3	172.2	156.2	120.3	88.0	63.8	63.3	104.6	116.6	165.8	142.4	203.2	129.5	1553.6
18 1991	216.4	180.9	160.1	121.3	97.7	74.8	95.5	111.6	135.5	161.3	207.3	137.5	145.8	1749.9
19 1992	211.5	161.3	127.6	106.4	77.6	76.0	66.3	91.8	113.0	152.6	153.5	199.7	128.1	1537.3
20 1993	165.1	144.1	142.2	112.2	76.8	53.0	58.7	82.4	85.7	140.0	168.5	184.4	117.6	1411.0
Mean	175.5	147.6	144.0	103.8	74.2	56.2	65.5	86.7	105.4	144.6	161.2	175.6	120.0	1449.4

Monthly Mean Evaporatio (No. 16)
 St. No. 02453023 Cascavel
 1974 - 1993 (20 Years)



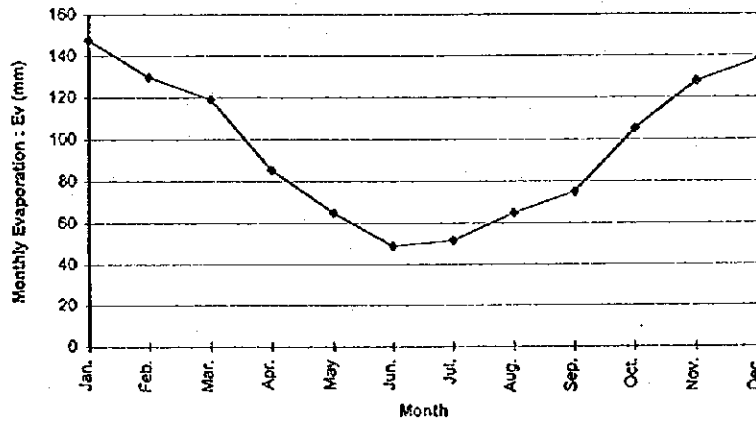
Annual Evaporation (No. 16)
 St. No. 02453023 Cascavel
 1974 - 1993 (20 Years)



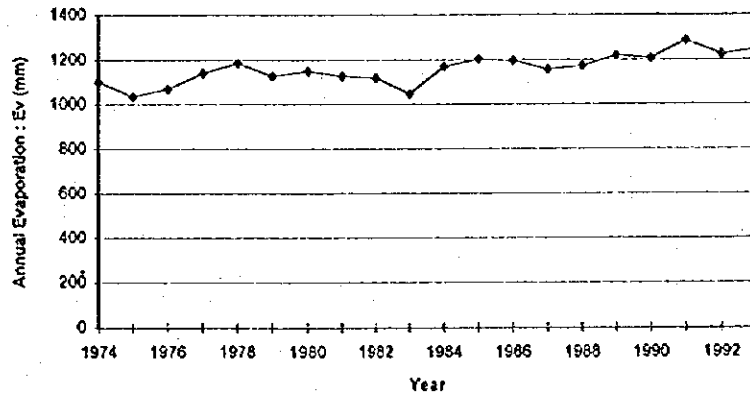
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02548038 (No. 17)
 St. Name Morretes

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	132.3	134.3	112.4	74.6	65.9	42.0	53.2	70.0	68.8	104.7	128.8	114.1	91.7	1100.4
2 1975	130.5	119.0	111.1	69.4	58.7	45.5	48.1	57.4	64.9	98.2	116.7	115.8	86.3	1035.1
3 1976	131.7	121.8	117.6	63.8	52.0	42.1	42.5	51.2	67.0	98.2	132.3	148.6	89.1	1069.0
4 1977	135.2	161.6	110.3	71.7	60.5	44.5	57.7	62.6	77.4	109.8	97.2	151.5	95.0	1140.0
5 1978	151.9	132.7	120.3	95.0	72.0	48.5	52.5	64.8	82.1	116.6	116.7	132.0	98.8	1185.0
6 1979	128.1	136.7	114.5	82.6	62.4	43.2	51.7	65.2	77.7	108.0	124.9	131.6	93.9	1126.9
7 1980	153.3	114.1	149.4	96.4	70.5	51.4	47.2	57.5	79.3	93.1	110.3	125.7	95.7	1148.1
8 1981	120.5	136.5	114.7	85.8	74.5	47.3	53.3	67.6	89.3	90.6	114.3	132.0	93.8	1126.2
9 1982	140.3	123.7	100.5	84.8	68.0	48.0	55.0	65.0	79.8	108.8	105.1	141.8	93.2	1118.7
10 1983	146.5	107.2	97.2	68.6	49.8	40.6	43.9	62.1	60.3	91.4	144.5	135.2	87.3	1047.1
11 1984	171.9	167.6	111.1	81.7	68.2	53.3	53.8	53.5	85.9	106.1	107.0	110.1	97.5	1170.2
12 1985	141.0	115.1	116.5	83.2	75.5	54.0	52.5	69.5	70.7	119.7	140.2	164.3	100.2	1202.1
13 1986	171.3	119.1	119.5	92.2	66.7	56.3	52.7	73.3	75.2	118.5	119.7	131.5	99.7	1195.8
14 1987	159.4	120.2	142.9	84.7	49.8	47.2	51.6	66.3	70.4	93.0	123.6	142.9	96.4	1156.9
15 1988	185.1	105.8	140.6	73.2	57.6	58.8	50.4	70.1	64.8	94.4	146.9	116.6	97.7	1172.3
16 1989	139.1	125.6	123.4	98.8	71.0	51.0	56.8	72.8	79.1	116.6	152.9	132.1	101.6	1219.2
17 1990	132.4	157.0	125.2	99.7	73.3	52.7	43.6	67.7	81.4	101.0	116.2	157.4	100.6	1207.3
18 1991	150.1	142.7	108.8	96.4	79.2	50.5	62.5	71.2	87.0	115.4	148.1	173.2	107.1	1285.2
19 1992	178.5	131.3	116.9	93.9	60.5	51.6	45.6	57.7	74.0	117.3	131.0	162.1	102.1	1225.4
20 1993	154.7	122.8	124.1	102.0	67.7	49.2	58.0	73.0	69.0	102.6	174.4	148.5	103.8	1245.1
Mean	147.7	129.7	119.0	85.4	65.1	48.9	51.6	64.9	75.2	105.2	127.8	138.4	96.6	1158.8

Monthly Mean Evaporatio (No. 17)
 St. No. 02548038 Morretes
 1974 - 1993 (20 Years)



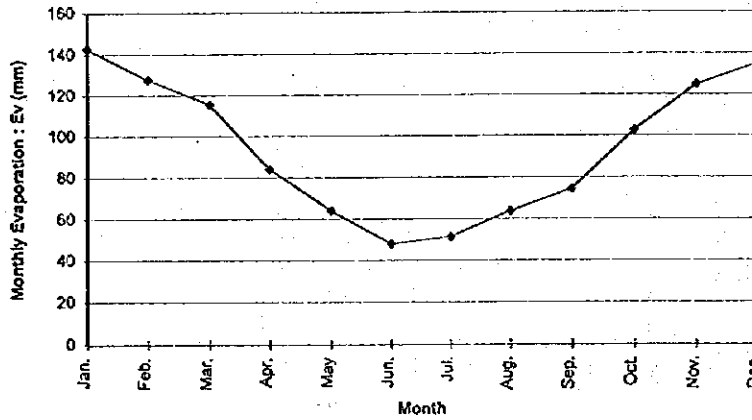
Annual Evaporation (No. 17)
 St. No. 02548038
 1974 - 1993 (20 Years)



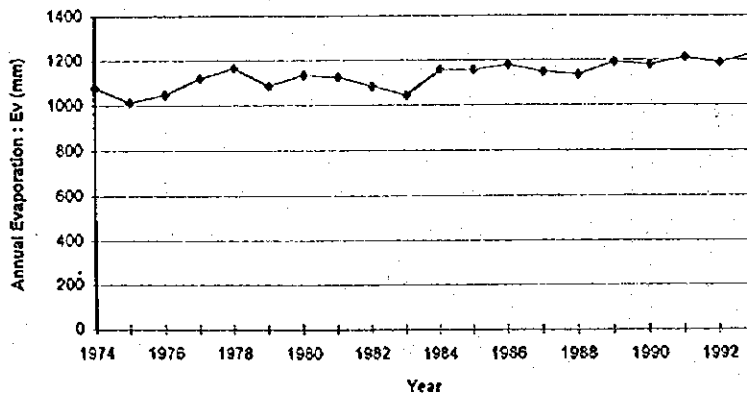
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02548039 (No.18)
 St. Name Guaraquecaba

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	128.6	130.5	109.6	73.4	65.1	42.2	52.9	69.0	67.5	102.2	125.1	111.2	89.8	1077.3
2 1975	126.9	115.8	108.3	68.4	58.2	45.6	48.0	56.9	64.1	95.9	113.7	112.8	84.6	1014.8
3 1976	128.0	119.6	114.5	63.1	51.8	42.3	42.7	51.0	66.1	95.9	128.6	144.4	87.3	1047.2
4 1977	131.4	156.6	107.6	70.7	59.9	44.6	57.3	62.0	76.1	107.0	101.3	144.7	93.3	1119.1
5 1978	150.4	135.4	118.7	91.6	66.7	47.2	51.4	64.0	83.2	113.9	115.5	128.3	97.0	1154.4
6 1979	124.6	130.5	110.0	82.8	58.7	40.3	49.7	62.8	77.5	104.9	120.0	123.4	90.4	1083.2
7 1980	146.9	113.1	140.9	90.5	69.8	50.0	47.3	57.3	80.2	91.9	111.2	133.9	94.4	1132.9
8 1981	124.0	138.6	111.3	85.5	72.5	47.3	53.2	68.8	87.5	87.8	115.9	134.2	93.7	1124.5
9 1982	131.3	117.7	96.8	80.3	63.4	50.8	55.8	66.6	78.6	104.7	101.7	135.9	90.3	1083.5
10 1983	138.7	112.5	93.0	67.7	50.3	40.5	44.6	62.9	60.6	90.7	141.7	140.9	87.0	1044.2
11 1984	176.8	162.4	111.4	83.9	73.1	52.3	52.6	52.7	87.1	100.3	99.9	104.3	96.4	1153.9
12 1985	122.5	110.9	114.5	83.0	73.7	52.3	52.7	66.8	71.9	116.2	136.7	156.2	96.4	1157.3
13 1986	172.6	119.4	111.3	92.3	64.7	54.0	51.4	69.3	76.2	115.8	116.5	133.6	98.1	1177.0
14 1987	152.1	120.6	134.6	88.8	54.7	45.9	51.8	65.9	69.5	93.5	128.0	142.4	95.6	1147.7
15 1988	179.1	103.2	139.4	76.8	57.1	47.1	50.3	69.1	64.0	92.4	142.5	113.6	94.6	1134.8
16 1989	155.1	122.2	120.1	96.6	70.0	50.8	56.3	71.6	77.7	113.6	148.3	128.4	99.2	1160.9
17 1990	128.7	152.2	121.6	97.4	72.1	52.4	43.7	66.8	79.9	98.6	113.2	152.6	98.3	1179.5
18 1991	145.6	138.6	106.2	94.3	73.5	47.0	58.0	65.6	79.1	108.2	139.9	155.7	101.0	1211.7
19 1992	154.2	133.8	119.2	94.2	60.9	55.0	47.7	57.2	73.1	114.3	126.6	153.4	99.1	1189.5
20 1993	156.8	119.5	120.8	99.6	64.3	50.3	57.8	72.1	68.1	103.9	170.4	146.1	102.5	1229.6
Mean	142.7	127.6	115.4	84.0	64.0	47.9	51.3	63.8	74.4	102.6	124.8	134.8	94.4	1133.4

Monthly Mean Evaporatio (No. 18)
 St. No. 02548039 Guaraquecaba
 1974 - 1993 (20 Years)



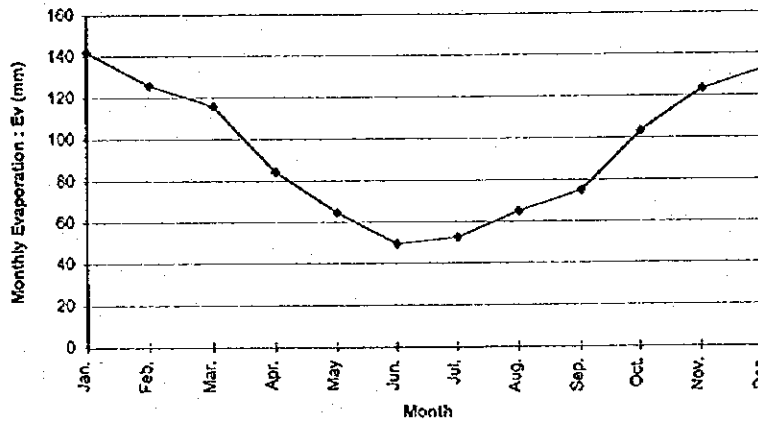
Annual Evaporation (No. 18)
 St. No. 02548039 Guaraquecaba
 1974 - 1993 (20 Years)



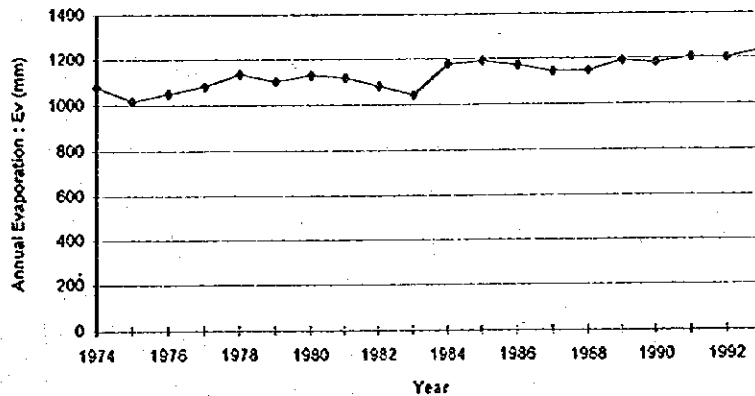
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02548070 (No.19)
 St. Name Antonina

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	127.7	129.6	109.3	74.0	65.9	43.6	54.1	69.7	68.3	102.0	124.3	110.8	89.9	1079.2
2 1975	126.1	115.3	108.0	69.2	59.1	46.9	49.3	57.9	64.9	95.9	113.3	112.4	84.9	1013.4
3 1976	127.2	118.0	114.1	63.9	52.9	43.7	44.1	52.2	66.9	95.9	127.7	143.2	87.5	1049.9
4 1977	130.5	155.1	107.3	71.3	60.8	48.0	58.3	62.8	76.6	106.8	74.1	133.2	90.2	1082.6
5 1978	149.7	132.4	113.3	88.8	64.6	47.3	52.6	66.1	77.9	111.3	115.8	114.5	94.5	1134.2
6 1979	123.9	131.9	115.1	83.4	61.2	44.2	50.0	63.8	77.5	107.5	119.0	125.9	91.9	1103.3
7 1980	146.3	109.2	139.8	93.1	69.8	51.0	47.8	57.4	78.3	93.8	109.1	134.7	94.2	1129.9
8 1981	122.2	138.6	110.9	84.5	71.7	47.6	53.7	68.3	87.7	83.4	116.5	129.4	93.2	1118.4
9 1982	131.2	117.8	89.3	83.5	64.3	49.3	55.3	65.7	79.7	105.5	102.3	138.4	90.2	1082.1
10 1983	141.8	112.7	97.7	68.5	47.5	40.2	44.0	62.4	60.4	91.8	145.8	130.5	88.9	1043.3
11 1984	172.2	161.2	111.6	81.9	73.2	53.5	53.9	53.7	89.7	108.5	102.6	114.9	88.1	1176.9
12 1985	127.4	114.1	115.2	84.3	74.9	53.3	54.1	69.1	75.9	122.6	140.9	157.6	99.1	1189.6
13 1986	164.1	115.4	113.9	91.2	67.4	56.2	51.6	72.7	78.6	115.7	116.5	127.9	97.6	1171.3
14 1987	153.0	116.4	139.8	85.7	55.0	47.0	53.7	66.3	70.6	90.4	125.5	139.2	95.2	1142.5
15 1988	177.0	103.1	138.3	77.3	58.2	59.2	51.5	69.8	64.8	92.5	141.4	113.2	95.5	1145.2
16 1989	134.1	121.6	119.5	96.6	70.7	52.0	57.4	72.3	78.1	113.2	147.0	127.6	99.2	1189.9
17 1990	127.9	150.8	121.1	97.4	72.7	53.5	45.1	67.5	80.4	98.6	112.7	151.1	98.2	1178.9
18 1991	144.4	137.5	105.9	94.3	73.1	45.7	57.7	65.2	83.5	107.9	137.2	151.9	100.4	1204.3
19 1992	160.8	126.8	119.3	96.7	60.9	52.5	50.9	58.9	73.6	117.2	129.3	155.2	100.2	1201.9
20 1993	149.9	110.4	125.9	99.5	69.9	54.3	63.4	78.3	69.8	100.1	166.5	147.0	102.5	1235.0
Mean	141.5	125.8	115.8	84.3	64.7	49.4	52.4	65.0	75.1	103.3	123.4	132.9	94.5	1133.9

Monthly Mean Evaporatio (No. 19)
 St. No. 02548070 Antonina
 1974 - 1993 (20 Years)



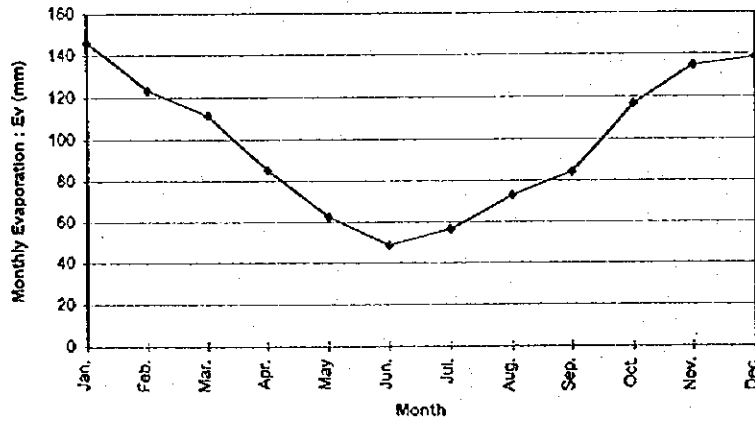
Annual Evaporation (No. 19)
 St. No. 02548070 Antonina
 1974 - 1993 (20 Years)



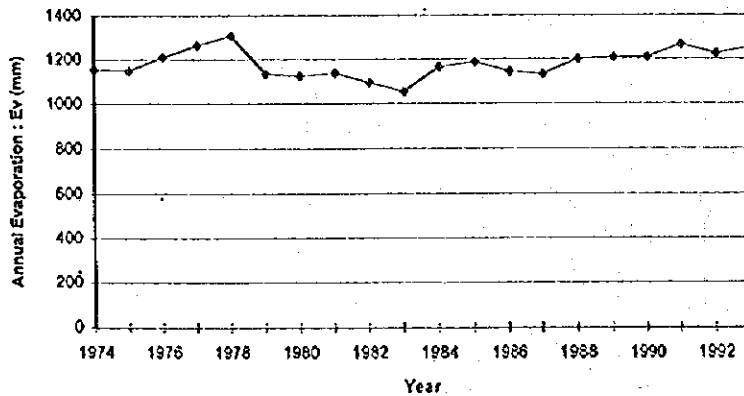
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02549041 (No 20)
 St. Name Piraquara

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	131.0	77.2	74.2	95.9	75.7	56.1	51.8	83.5	93.7	125.8	167.3	122.8	96.3	1155.1
2 1975	141.4	125.3	111.5	94.9	62.3	51.1	57.0	77.7	81.3	107.6	123.5	115.5	95.8	1149.2
3 1976	130.4	121.1	117.2	85.7	56.1	48.6	56.7	81.7	84.3	127.2	149.4	151.3	100.8	1209.7
4 1977	121.8	135.8	114.2	81.9	75.2	54.9	66.0	85.5	103.0	135.3	117.2	148.9	105.2	1262.8
5 1978	150.8	146.9	122.6	102.9	73.2	59.9	61.3	76.4	95.9	139.8	137.7	142.4	108.9	1306.8
6 1979	152.4	139.7	109.3	74.9	55.3	42.9	49.2	69.8	79.4	109.4	125.5	126.3	94.5	1134.0
7 1980	154.5	110.1	128.6	88.3	61.1	44.6	47.5	60.2	74.2	105.2	111.7	137.4	93.6	1123.5
8 1981	141.1	130.0	112.4	80.2	64.8	44.6	60.6	69.1	92.3	92.6	128.7	121.0	94.8	1137.5
9 1982	140.2	118.4	93.7	79.6	60.2	44.3	53.2	68.5	84.4	106.1	111.8	134.6	91.2	1095.0
10 1983	144.5	103.9	95.3	64.6	48.7	38.2	46.0	67.7	64.8	95.8	144.9	138.1	87.7	1052.5
11 1984	169.1	155.1	103.3	76.2	67.4	62.0	51.6	54.8	86.7	116.0	107.4	126.4	97.1	1165.8
12 1985	141.0	110.9	107.9	79.5	63.7	47.6	50.8	72.4	79.5	134.8	144.9	153.4	98.9	1186.4
13 1986	156.4	113.7	114.8	83.1	58.1	49.9	48.3	67.3	78.0	123.6	124.3	126.4	95.3	1143.9
14 1987	152.9	116.1	128.2	76.7	50.9	44.7	59.2	65.7	74.2	102.0	123.2	138.2	94.3	1131.9
15 1988	169.9	107.5	134.3	76.1	52.8	40.0	58.7	65.1	91.2	113.6	147.5	123.8	100.0	1200.5
16 1989	136.0	120.6	115.2	96.2	65.0	46.1	59.2	78.0	86.7	123.8	146.3	135.8	100.7	1208.7
17 1990	114.0	157.7	119.2	93.3	68.0	52.2	48.5	72.1	86.6	116.0	128.4	153.1	100.8	1209.2
18 1991	150.6	138.7	103.3	90.1	70.0	51.2	66.4	74.5	90.0	122.7	150.9	156.6	105.4	1265.0
19 1992	173.8	132.5	109.7	91.2	60.5	55.0	52.7	63.8	81.9	118.6	129.9	156.7	102.2	1226.2
20 1993	149.6	106.8	116.9	95.2	64.2	49.4	63.4	82.0	76.7	119.8	172.7	157.7	104.5	1254.4
Mean	146.1	123.4	111.6	85.3	62.7	48.7	56.4	72.9	84.2	116.6	134.7	138.3	98.4	1180.9

Monthly Mean Evaporation (No. 20)
 St. No. 02549041 Piraquara
 1974 - 1993 (20 Years)



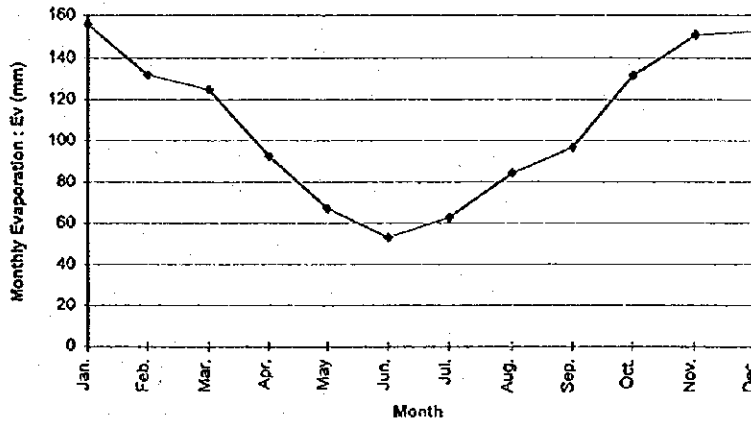
Annual Evaporation (No. 20)
 St. No. 02549041 Piraquara
 1974 - 1993 (20 Years)



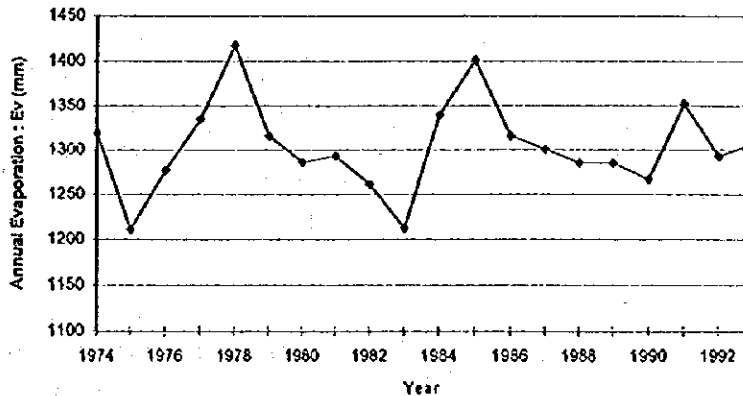
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02549091 (No 21)
 St. Name Lapa

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	139.4	145.3	113.8	101.1	79.0	57.5	52.8	87.5	98.6	133.8	179.2	130.5	110.0	1319.5
2 1975	150.9	133.2	118.2	100.0	64.3	52.1	56.5	81.1	65.1	113.8	131.3	122.5	100.9	1210.9
3 1976	138.8	128.7	124.4	89.9	57.5	49.3	58.2	85.5	88.4	135.3	159.6	161.8	106.4	1277.1
4 1977	129.4	144.7	121.1	85.8	78.4	56.2	90.2	92.9	108.9	144.2	124.3	159.0	111.3	1335.2
5 1978	161.1	156.9	130.3	108.7	78.2	61.7	63.2	85.0	110.1	159.2	144.8	160.6	118.1	1417.7
6 1979	167.4	139.8	133.0	88.1	65.8	57.9	60.3	84.7	93.5	140.8	145.7	138.1	109.7	1315.1
7 1980	160.8	120.4	140.8	99.7	66.5	55.0	63.3	75.1	84.6	123.5	143.8	152.6	107.2	1285.2
8 1981	142.4	132.7	127.2	97.7	72.0	52.2	62.7	90.8	107.6	115.3	158.1	134.4	107.8	1293.1
9 1982	158.5	121.6	112.9	92.8	73.6	47.7	62.3	81.8	113.7	128.2	121.4	146.9	105.1	1251.3
10 1983	151.3	112.8	109.2	73.6	56.6	41.9	57.0	93.9	79.7	117.3	163.1	155.9	101.0	1212.2
11 1984	173.6	161.0	116.7	88.2	71.9	60.9	71.1	64.2	112.4	147.7	127.7	144.4	111.7	1339.8
12 1985	171.4	119.1	115.2	85.7	75.9	56.4	64.0	101.7	102.8	147.3	178.5	183.2	116.8	1401.1
13 1986	174.8	114.5	128.0	95.5	65.3	61.8	55.8	79.3	100.0	154.2	145.1	141.8	109.7	1315.1
14 1987	154.6	116.7	154.0	83.1	55.3	49.2	78.9	85.9	96.1	122.0	143.9	150.8	108.4	1300.5
15 1988	168.1	107.1	145.5	83.8	47.5	39.9	64.7	105.0	98.9	126.3	165.8	132.3	107.1	1255.3
16 1989	131.0	121.3	129.4	86.7	66.1	48.5	61.1	82.8	87.7	132.3	162.2	156.1	107.1	1255.2
17 1990	120.9	153.4	126.6	95.2	71.5	51.5	48.9	75.1	93.2	124.5	141.7	164.4	105.6	1266.9
18 1991	168.7	148.2	112.7	90.9	72.1	55.4	87.1	81.2	98.7	125.3	162.1	172.1	112.7	1352.5
19 1992	184.4	147.4	115.8	94.9	59.5	56.9	52.3	67.1	86.4	119.7	138.9	169.7	107.7	1293.0
20 1993	159.8	113.0	120.6	96.4	66.8	50.2	62.8	83.0	80.1	123.8	179.4	171.3	108.9	1307.3
Mean	155.8	131.9	124.8	92.4	67.1	53.1	62.8	84.2	96.8	131.7	150.9	152.4	108.7	1303.8

Monthly Mean Evaporatio (No. 21)
 St. No. 02549091 Lapa
 1974 - 1993 (20 Years)



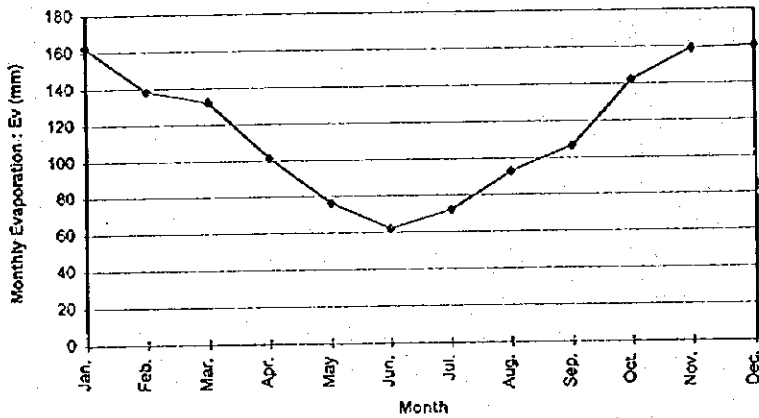
Annual Evaporation (No. 21)
 St. No. 02549091 Lapa
 1974 - 1993 (20 Years)



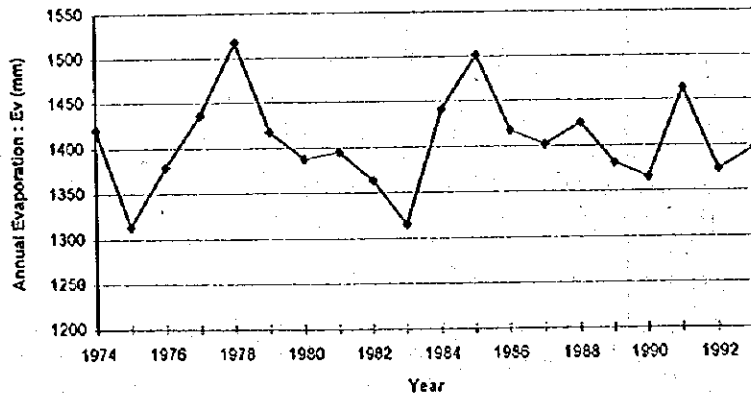
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02550024 (No.22)
 St. Name Ponta Grossa

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	147.4	154.2	122.2	109.7	87.9	68.8	62.2	96.3	107.2	141.8	186.5	138.6	118.4	1420.8
2 1975	158.7	141.3	126.5	108.6	73.5	61.5	67.8	90.1	93.9	122.2	139.4	130.7	109.5	1314.0
3 1976	145.8	136.8	132.6	98.7	68.8	58.7	67.5	84.4	97.2	143.3	167.2	169.3	114.9	1379.2
4 1977	137.5	152.6	129.4	94.6	87.4	65.5	99.0	101.6	117.3	152.1	132.6	166.7	119.7	1436.3
5 1978	168.7	164.6	138.4	117.2	85.2	70.9	72.4	93.8	118.6	166.8	152.7	168.2	126.5	1517.5
6 1979	174.9	147.7	141.1	96.9	75.0	67.2	69.5	93.6	102.2	148.7	154.6	145.1	118.1	1417.5
7 1980	168.4	128.7	149.8	108.4	75.7	64.4	72.5	84.1	93.5	131.7	151.7	160.4	115.7	1388.1
8 1981	150.3	140.8	135.4	106.3	81.1	61.6	71.9	99.6	116.1	123.7	165.7	142.4	116.2	1394.9
9 1982	166.2	129.8	121.3	101.6	82.6	57.1	71.5	90.7	122.0	136.3	129.7	154.8	113.6	1363.6
10 1983	159.1	121.2	117.7	82.6	65.9	51.5	66.3	102.6	88.6	125.6	170.7	163.6	109.6	1315.3
11 1984	181.1	168.6	125.0	97.0	80.9	70.2	80.2	73.4	120.8	155.6	135.8	152.3	120.1	1440.9
12 1985	178.9	127.4	123.6	94.6	84.9	65.7	73.2	110.3	111.4	155.1	185.8	190.5	125.1	1501.2
13 1986	182.2	122.9	136.2	104.2	74.5	71.0	65.1	88.3	108.6	162.0	152.9	149.8	118.1	1417.5
14 1987	172.1	125.0	161.8	92.0	64.6	58.6	87.8	94.7	104.8	130.3	151.8	158.6	116.8	1402.2
15 1988	175.7	115.6	153.4	92.7	57.3	49.5	73.9	113.6	120.9	147.1	177.7	148.0	118.8	1425.2
16 1989	132.0	123.4	138.4	111.5	77.3	54.3	70.3	89.9	106.4	148.0	170.9	159.2	115.1	1381.5
17 1990	124.6	155.3	134.8	104.8	79.3	58.4	54.9	85.4	104.6	141.0	145.7	175.9	113.8	1365.5
18 1991	177.3	157.8	112.5	98.9	80.3	61.6	80.7	89.0	114.8	137.4	173.2	179.6	121.9	1463.1
19 1992	188.7	140.3	114.5	97.3	67.6	65.9	63.5	75.7	96.0	138.0	149.0	179.4	114.5	1374.0
20 1993	161.1	113.0	132.0	110.3	77.9	58.1	69.1	91.9	86.6	138.1	185.7	173.7	116.4	1397.4
Mean	162.6	138.3	132.3	101.4	78.3	61.9	72.0	92.9	106.6	142.1	159.0	160.4	117.1	1405.8

Monthly Mean Evaporation (No. 22)
 St. No. 02550024 Ponta Grossa
 1974 - 1993 (20 Years)



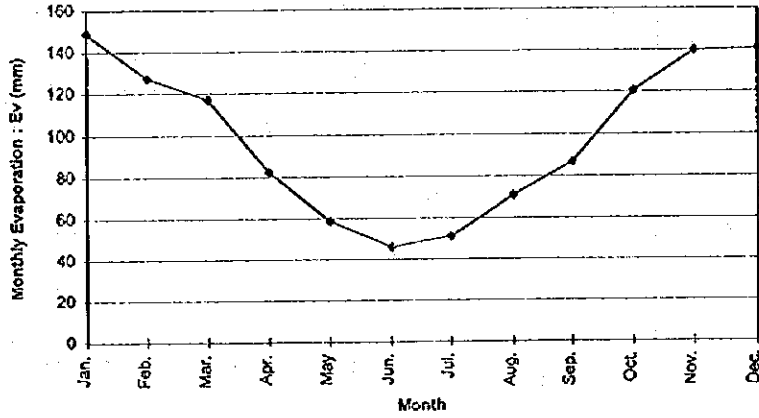
Annual Evaporation (No. 22)
 St. No. 02550024 Ponta Grossa
 1974 - 1993 (20 Years)



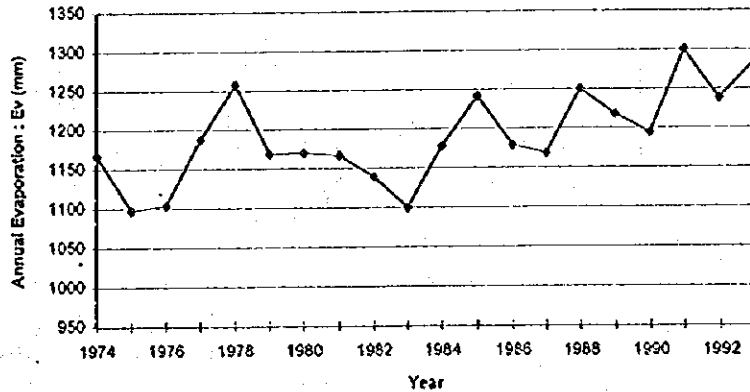
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02550025 (No. 23)
 St. Name Teixeira

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	134.4	132.0	104.0	84.2	63.0	43.3	54.9	69.5	69.2	121.8	153.7	116.8	97.2	1168.7
2 1975	140.2	123.0	108.3	80.8	55.8	43.9	50.1	72.2	76.0	104.1	121.1	121.5	91.4	1097.1
3 1976	119.3	123.2	107.9	79.2	53.2	43.9	47.4	71.5	73.9	111.6	138.3	134.5	92.0	1103.8
4 1977	122.9	152.9	113.0	76.6	65.2	46.8	61.3	68.4	92.7	126.8	115.6	145.4	99.0	1187.6
5 1978	157.9	139.4	123.7	96.9	65.8	47.3	50.4	66.4	94.2	140.4	131.7	144.4	104.8	1258.1
6 1979	158.5	132.3	121.0	76.7	53.8	44.9	47.0	72.5	83.6	119.8	132.6	125.8	97.4	1168.4
7 1980	151.0	123.6	135.7	86.2	59.1	44.5	48.6	63.7	75.1	123.4	130.2	128.8	97.5	1169.7
8 1981	137.5	129.3	120.2	82.7	63.1	44.4	48.6	73.2	98.1	104.3	139.7	125.0	97.2	1166.0
9 1982	152.2	122.1	105.1	63.4	61.0	40.5	50.6	70.5	94.3	111.8	109.8	137.3	94.9	1138.7
10 1983	145.8	111.4	107.2	70.2	49.2	37.7	46.4	73.4	68.6	103.1	150.8	135.9	91.6	1099.6
11 1984	164.2	153.2	101.0	74.6	63.7	50.6	52.4	55.9	95.8	126.6	113.7	125.5	98.1	1177.1
12 1985	166.1	107.8	113.0	80.2	62.2	45.4	49.0	78.6	86.4	128.1	163.2	161.5	103.5	1241.5
13 1986	163.3	105.8	119.9	86.7	59.0	50.4	45.8	68.9	83.5	133.2	133.8	128.3	98.2	1178.6
14 1987	159.3	118.7	131.6	75.5	49.1	42.5	58.0	67.4	80.2	106.4	133.4	146.0	97.3	1168.1
15 1988	165.7	107.5	135.6	75.9	50.0	56.4	53.9	86.3	97.8	126.5	166.5	128.3	104.2	1250.4
16 1989	131.2	116.9	120.9	91.3	62.1	45.2	54.4	72.6	94.4	128.3	150.3	150.7	101.5	1218.4
17 1990	122.6	153.1	117.8	85.4	61.9	45.0	43.2	67.5	89.6	122.3	130.3	155.3	99.5	1194.1
18 1991	160.0	144.0	118.1	82.2	63.6	51.2	56.5	73.0	97.5	122.9	163.7	168.0	108.4	1300.8
19 1992	169.4	138.5	109.3	86.4	51.3	51.1	50.0	65.6	88.2	117.2	141.6	169.7	103.2	1238.3
20 1993	155.9	108.4	124.1	90.7	62.2	46.0	55.7	81.9	80.2	130.5	178.5	167.6	107.3	1287.6
Mean	148.9	127.1	116.9	82.6	58.7	46.0	51.2	71.0	87.0	120.4	139.9	140.8	99.2	1190.5

Monthly Mean Evaporation (No. 23)
 St. No. 02550025 Teixeira
 1974 - 1993 (20 Years)



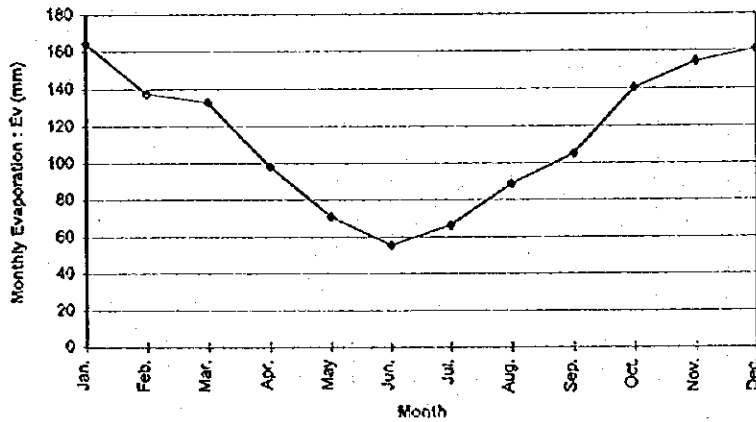
Annual Evaporation (No. 23)
 St. No. 02550025 Teixeira
 1974 - 1993 (20 Years)



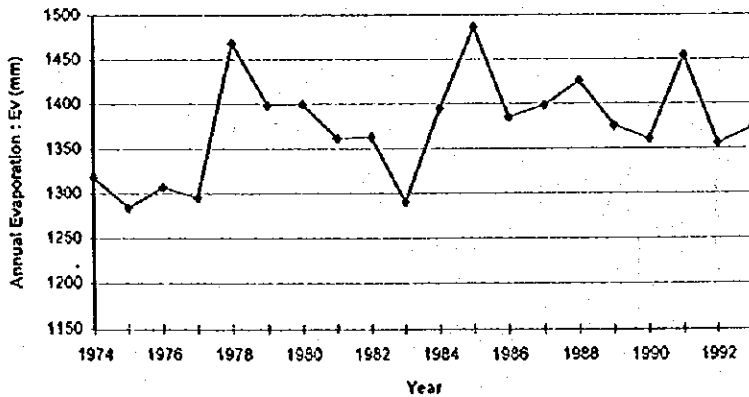
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02551010 (No.24)
 St. Name Guarapuava

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	134.1	132.3	119.5	99.2	77.7	57.5	69.3	84.2	104.4	137.6	170.2	132.5	109.9	1318.7
2 1975	156.4	138.8	123.9	95.8	70.3	58.1	64.5	87.0	90.9	119.8	136.9	141.7	107.0	1294.1
3 1976	133.5	142.4	130.7	94.0	61.7	55.1	64.2	87.7	91.1	141.0	147.2	158.8	108.9	1307.3
4 1977	127.2	137.9	119.1	88.5	67.8	49.9	77.8	89.4	105.2	144.6	132.5	155.4	107.9	1295.2
5 1978	175.4	155.3	144.4	121.3	87.3	61.8	67.1	81.1	109.5	156.6	147.7	160.7	122.3	1468.1
6 1979	191.8	153.9	141.3	98.4	67.0	58.5	58.9	88.6	104.5	137.8	153.6	144.5	116.5	1358.6
7 1980	179.1	141.6	141.9	106.8	69.5	60.4	69.6	84.5	96.7	133.3	155.3	154.8	116.6	1399.4
8 1981	152.4	130.5	137.5	97.7	76.7	53.2	69.3	95.3	119.1	128.2	151.5	150.4	113.5	1351.7
9 1982	191.0	127.8	128.0	106.4	78.7	48.9	65.9	89.2	117.2	132.2	121.8	156.0	113.6	1363.1
10 1983	165.3	125.0	133.0	87.2	59.2	43.4	57.1	98.2	88.7	127.1	147.1	158.6	107.5	1290.0
11 1984	163.8	156.5	121.4	96.4	73.6	58.5	69.0	76.7	117.6	157.5	132.7	160.7	118.2	1394.6
12 1985	198.0	115.3	120.3	94.1	80.4	60.9	68.2	94.2	115.3	156.2	188.4	194.6	123.8	1485.9
13 1986	171.6	121.3	135.7	89.4	67.2	65.4	65.1	86.8	109.5	151.4	157.4	154.3	115.4	1385.0
14 1987	178.9	134.4	154.0	92.8	59.1	56.4	74.4	88.4	104.2	131.6	153.9	170.4	116.5	1398.4
15 1988	173.7	119.0	150.1	86.7	55.5	46.8	72.1	107.7	128.0	150.1	187.8	148.4	118.8	1425.8
16 1989	133.8	126.9	140.4	103.4	75.5	53.2	67.2	90.2	103.2	148.4	163.1	170.3	114.6	1375.5
17 1990	134.1	162.2	133.7	100.6	71.8	53.9	53.1	85.5	103.0	136.0	145.8	181.3	113.4	1351.0
18 1991	185.2	159.5	133.9	99.1	76.8	56.5	71.1	87.0	108.2	137.0	168.4	171.8	121.2	1454.4
19 1992	179.0	143.1	115.3	91.8	65.7	60.3	59.8	77.2	97.2	133.0	151.7	181.6	113.0	1356.0
20 1993	159.8	116.9	132.5	103.4	74.2	55.0	61.9	94.4	89.4	141.2	175.3	169.0	114.4	1372.9
Mean	164.2	137.5	132.8	98.1	70.8	55.7	66.3	88.7	105.1	140.3	154.4	160.8	114.6	1374.8

Monthly Mean Evaporatio (No. 24)
 St. No. 02551010 Guarapuava
 1974 - 1993 (20 Years)



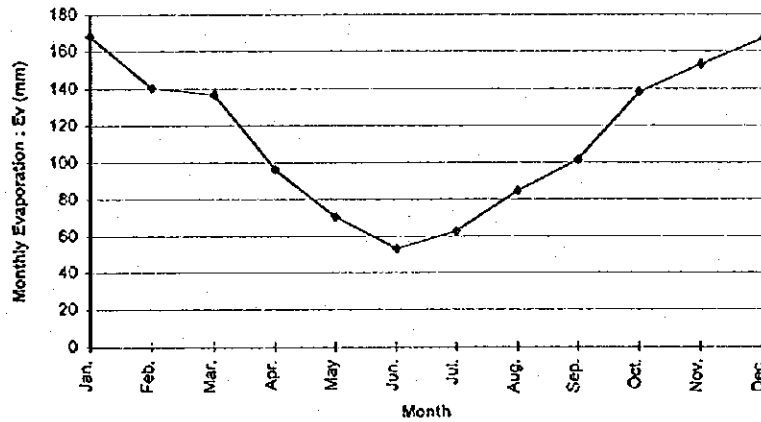
Annual Evaporation (No. 24)
 St. No. 02551010 Guarapuava
 1974 - 1993 (20 Years)



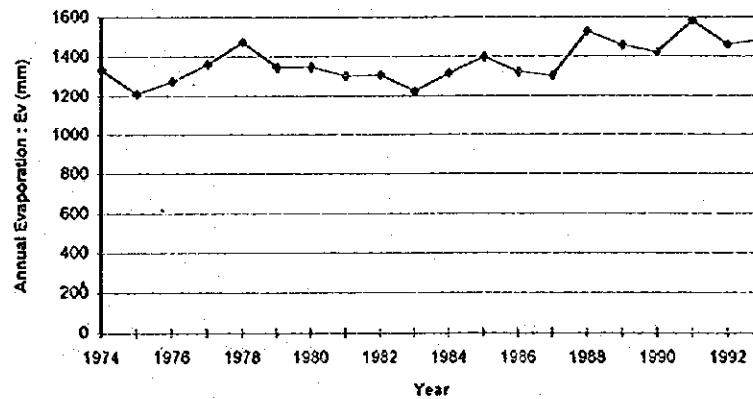
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02552009 (No 25)
 St. Name Laranjeiras

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	147.8	139.6	130.4	48.2	73.2	43.0	62.7	76.8	108.1	143.8	177.1	178.4	111.1	1333.8
2 1975	166.7	137.3	122.7	98.1	64.6	52.1	57.9	83.9	87.7	117.3	73.0	150.7	101.0	1211.9
3 1976	139.2	147.3	133.5	95.0	58.7	47.7	57.1	78.0	84.9	133.6	143.0	152.3	106.3	1275.1
4 1977	135.4	152.5	125.0	100.3	76.5	54.7	71.8	77.8	104.2	146.8	143.2	172.1	113.3	1360.1
5 1978	195.4	165.0	148.6	115.1	78.9	53.8	59.1	74.7	105.1	138.2	155.0	184.7	122.6	1471.4
6 1979	195.5	155.3	140.1	89.2	61.3	52.1	54.9	85.0	94.1	124.3	150.6	144.0	112.2	1346.5
7 1980	175.2	141.7	149.7	106.2	67.8	50.2	57.6	76.6	86.7	128.4	146.6	160.5	112.3	1347.2
8 1981	157.1	124.7	141.6	97.3	81.8	47.8	58.6	83.3	105.1	119.6	143.5	142.0	108.5	1302.3
9 1982	182.3	117.1	135.2	105.6	71.0	45.0	63.2	84.6	105.3	131.4	116.6	149.9	108.9	1307.1
10 1983	157.1	124.7	131.7	84.2	60.3	37.1	45.4	83.3	81.2	118.7	142.9	158.1	102.1	1225.5
11 1984	153.4	153.2	123.4	88.5	73.9	52.6	63.5	68.5	107.8	150.0	125.2	151.2	109.7	1316.2
12 1985	193.9	119.8	123.7	90.6	77.2	55.9	58.0	80.7	94.7	141.1	173.4	186.9	116.3	1395.2
13 1986	167.3	123.3	133.8	95.0	65.2	60.6	60.0	80.3	93.8	141.3	147.8	149.1	110.2	1322.4
14 1987	167.7	125.7	142.3	90.6	52.6	51.5	64.7	78.7	93.8	124.5	152.5	161.6	108.7	1304.1
15 1988	178.4	124.1	157.1	97.0	58.1	53.5	76.1	122.5	138.1	160.4	203.1	160.6	127.2	1527.0
16 1989	139.3	133.6	151.8	109.3	81.3	57.8	73.6	93.8	103.6	160.6	173.5	174.0	121.4	1457.1
17 1990	144.6	167.8	130.8	103.7	75.1	56.5	57.0	92.6	106.2	145.4	156.7	184.6	118.4	1420.9
18 1991	198.4	173.1	145.9	107.2	82.8	62.3	82.1	94.0	120.2	147.4	182.4	186.3	131.8	1582.1
19 1992	197.6	150.7	128.9	97.8	67.7	65.1	61.8	81.7	102.6	141.7	165.6	200.4	121.8	1461.4
20 1993	170.9	129.2	139.5	111.2	81.7	61.4	68.8	100.6	96.0	143.0	186.6	189.4	123.7	1484.3
Mean	168.1	140.5	136.8	96.5	70.4	53.3	62.7	84.8	101.4	138.2	153.2	166.8	114.4	1372.6

Monthly Mean Evaporatio (No. 25)
 St. No. 02552009 Laranjeiras
 1974 - 1993 (20 Years)



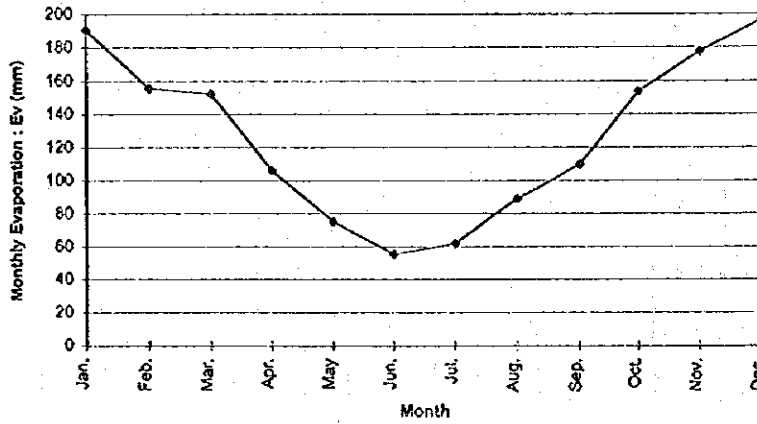
Annual Evaporation (No. 25)
 St. No. 02552009 Laranjeiras
 1974 - 1993 (20 Years)



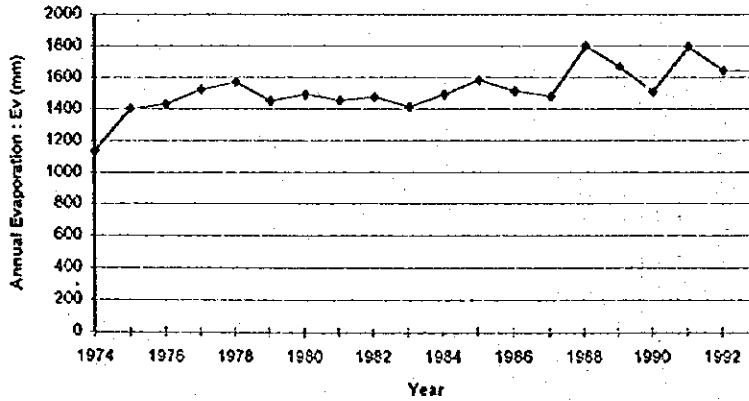
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02553015 (No 26)
 St. Name Planalto

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	94.0	81.2	73.9	62.5	50.5	35.5	45.5	75.3	107.0	141.0	180.3	168.6	94.8	1137.3
2 1975	176.2	153.0	135.3	101.6	72.0	51.4	59.3	81.1	92.6	128.7	170.0	180.6	116.8	1401.8
3 1976	165.0	162.6	142.8	105.9	64.6	47.3	60.3	81.3	88.8	154.7	170.5	187.3	119.2	1430.7
4 1977	160.9	176.7	143.6	110.1	78.6	60.7	74.6	78.7	117.3	164.2	162.9	196.2	126.9	1522.4
5 1978	203.3	183.0	165.4	116.8	78.8	56.0	63.3	73.5	108.6	150.2	163.7	206.7	130.6	1569.2
6 1979	214.4	166.3	157.7	93.4	63.8	54.0	59.3	85.0	100.8	132.2	167.8	155.4	120.8	1450.1
7 1980	209.7	162.9	159.7	119.2	70.7	51.8	55.7	82.1	96.4	136.1	162.2	185.1	124.3	1491.5
8 1981	177.0	136.3	169.2	105.5	88.9	47.8	60.3	87.1	111.1	139.4	164.0	167.2	121.1	1453.8
9 1982	222.4	138.5	156.4	124.1	76.6	44.1	65.6	87.9	113.9	140.3	126.8	179.1	123.0	1475.6
10 1983	183.8	143.4	153.6	91.2	60.9	39.6	48.0	83.0	92.1	148.6	165.3	207.2	117.9	1414.6
11 1984	185.2	175.7	140.1	93.2	78.4	52.3	66.7	71.8	117.4	169.3	158.6	183.5	124.3	1491.7
12 1985	222.9	145.9	145.1	100.5	79.0	58.9	61.4	78.8	100.8	159.9	202.6	225.9	131.9	1582.8
13 1986	205.6	150.0	152.4	102.8	70.7	63.5	67.9	86.0	106.7	150.9	168.6	187.2	126.0	1512.3
14 1987	199.5	143.3	170.2	100.4	57.5	53.9	62.2	80.1	106.8	135.7	180.5	190.6	123.4	1480.7
15 1988	216.3	162.8	201.9	112.4	59.9	58.7	82.5	136.7	152.0	188.8	240.1	190.4	150.0	1800.6
16 1989	150.1	152.7	166.3	120.7	99.1	63.3	83.3	105.7	116.3	190.4	206.9	211.3	139.1	1669.0
17 1990	166.7	167.4	144.3	105.4	90.5	60.1	-0.9	106.2	112.1	160.6	183.1	212.9	125.7	1508.4
18 1991	234.1	190.5	177.8	120.3	95.0	69.8	82.4	112.5	143.3	162.2	205.6	202.2	149.6	1795.7
19 1992	231.3	165.8	133.3	108.4	72.4	71.7	65.1	93.8	116.8	157.9	185.7	242.2	137.0	1644.2
20 1993	192.1	154.9	159.4	127.1	96.5	66.9	75.9	93.6	95.4	166.2	183.7	226.9	136.6	1638.7
Mean	190.5	153.8	152.5	106.1	75.1	55.4	61.8	89.1	109.8	153.8	177.4	196.3	127.0	1523.5

Monthly Mean Evaporatio (No. 26)
 St. No. 02553015 Planalto
 1974 - 1993 (20 Years)



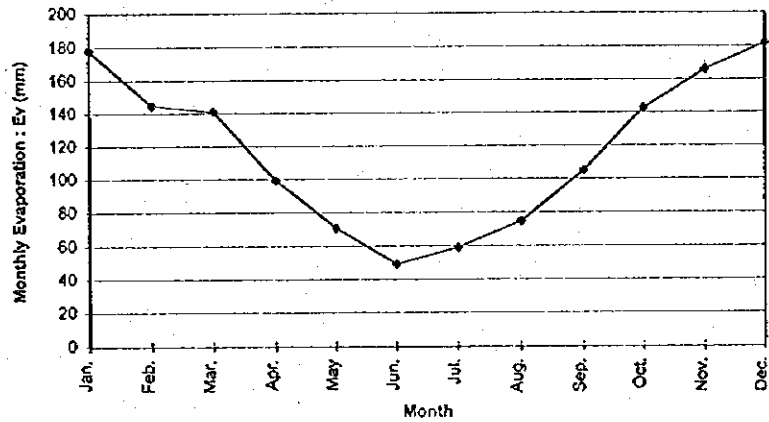
Annual Evaporation (No. 26)
 St. No. 02553015 Planalto
 1974 - 1993 (20 Years)



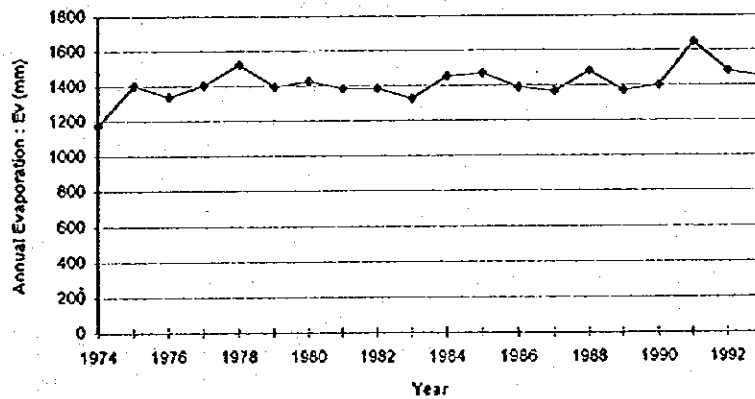
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02553018 (No 27)
 St. Name Quedas

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	89.1	77.5	70.9	60.6	49.8	36.2	46.1	89.9	128.2	151.0	137.1	188.5	97.9	1174.7
2 1975	175.8	144.9	141.4	106.5	79.2	61.0	74.5	81.2	102.8	123.4	151.7	158.9	115.8	1401.1
3 1976	147.0	153.1	137.8	98.8	60.3	43.7	55.9	79.7	77.3	145.0	163.2	176.7	111.5	1338.3
4 1977	141.3	159.8	131.4	102.4	74.7	55.0	71.4	75.3	108.3	143.6	146.2	188.5	115.9	1403.1
5 1978	205.9	169.5	153.7	116.2	75.4	52.9	58.9	75.6	108.9	144.9	157.7	201.5	126.8	1521.0
6 1979	208.9	157.0	148.1	90.6	60.5	49.8	55.7	84.0	97.4	129.2	162.5	153.5	116.3	1395.2
7 1980	193.8	149.0	156.1	114.0	67.6	50.6	57.3	80.8	92.3	134.3	157.2	172.7	118.8	1425.7
8 1981	172.1	132.4	157.1	102.5	84.3	48.2	58.6	82.8	104.5	130.1	155.8	155.3	115.3	1383.7
9 1982	203.8	129.4	152.2	113.2	69.6	44.2	62.5	86.7	109.2	131.7	115.3	166.8	115.4	1384.5
10 1983	174.7	133.7	142.3	89.8	62.4	38.5	45.6	79.0	85.0	129.2	157.0	169.9	110.6	1327.2
11 1984	177.4	171.3	129.8	84.0	79.2	52.9	67.0	72.4	118.2	170.2	147.5	184.3	121.1	1453.2
12 1985	209.5	128.7	136.0	93.2	73.0	54.5	58.7	75.4	94.0	146.0	192.0	207.0	122.3	1467.8
13 1986	188.4	132.3	136.2	94.0	64.5	57.1	59.9	80.8	100.3	136.0	160.7	172.0	115.8	1389.2
14 1987	184.5	133.7	152.5	89.5	53.0	45.3	61.1	76.9	97.4	127.2	159.7	174.6	113.8	1365.5
15 1988	191.6	145.0	168.2	100.2	58.3	62.5	78.7	3.3	137.0	160.3	213.5	162.7	123.4	1481.1
16 1989	148.1	138.3	151.8	109.2	83.5	3.3	73.3	3.3	109.2	162.7	191.2	196.3	114.2	1370.2
17 1990	147.0	162.8	134.6	95.5	77.0	55.5	3.3	100.1	105.5	149.3	189.6	201.3	116.8	1401.4
18 1991	220.3	177.6	161.0	112.9	84.9	61.0	78.6	96.2	130.1	150.7	187.7	184.7	137.1	1645.5
19 1992	213.2	150.2	127.5	102.1	66.8	61.4	56.5	79.7	105.3	143.6	167.4	208.6	123.5	1482.3
20 1993	167.3	144.2	138.0	109.8	91.4	52.8	59.5	88.8	90.3	141.9	170.1	194.3	120.7	1443.0
Mean	178.0	144.9	141.2	99.2	70.8	49.3	59.1	74.6	105.0	142.8	166.2	181.9	117.7	1413.0

Monthly Mean Evaporatio (No. 27)
 St. No. 02553018 Quedas
 1974 - 1993 (20 Years)



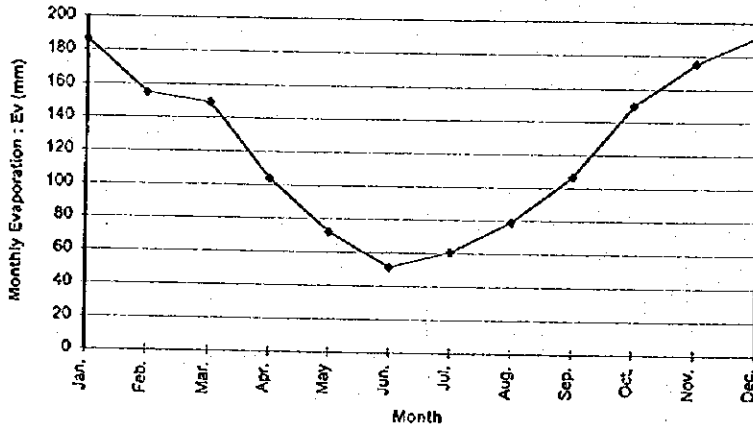
Annual Evaporation (No. 27)
 St. No. 02553018 Quedas
 1974 - 1993 (20 Years)



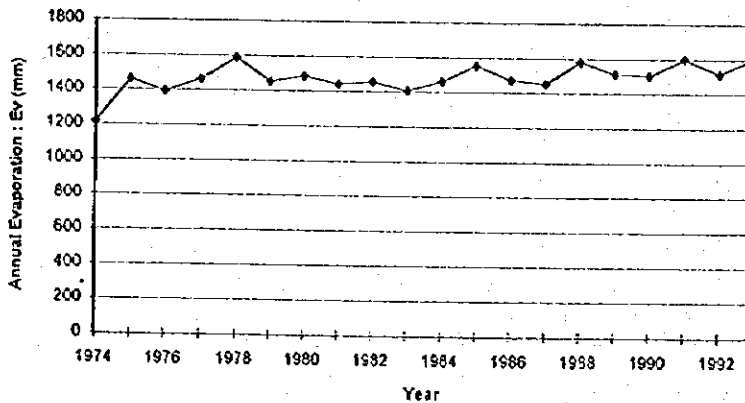
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02554026 (No. 28)
 St. Name Sao Miguel

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	92.0	79.6	72.5	61.4	49.8	35.2	45.9	92.8	133.9	158.3	197.0	198.6	101.4	1217.0
2 1975	185.0	151.8	148.1	110.7	81.3	61.9	76.3	83.5	106.5	128.7	159.2	165.8	121.6	1459.8
3 1976	154.0	160.6	144.2	102.4	61.1	43.3	56.3	81.9	79.3	151.9	171.5	185.9	116.0	1392.5
4 1977	147.9	167.8	137.3	106.2	76.6	55.5	73.0	77.2	112.6	155.8	153.3	198.6	121.8	1451.9
5 1978	217.2	178.2	161.2	121.0	77.3	53.2	59.6	77.5	113.2	151.8	165.6	212.5	132.4	1588.4
6 1979	220.4	164.8	153.1	93.6	61.3	49.9	56.2	86.5	100.9	135.0	170.7	161.1	121.1	1453.5
7 1980	204.3	156.2	163.9	118.7	68.9	50.7	57.9	83.1	95.4	140.5	165.1	181.6	123.8	1486.1
8 1981	181.0	138.4	164.9	106.4	86.8	48.1	59.3	85.3	108.5	136.0	163.5	163.0	120.1	1441.1
9 1982	215.0	135.2	159.6	117.8	71.0	43.8	63.5	89.4	108.6	144.0	128.6	179.9	121.4	1455.4
10 1983	190.3	152.6	148.0	92.4	58.8	39.6	45.5	80.6	88.0	141.3	168.0	202.3	117.3	1407.4
11 1984	166.7	180.1	137.1	91.1	76.9	49.2	63.6	69.0	111.9	163.4	154.6	177.7	121.8	1461.3
12 1985	215.4	154.5	147.6	97.9	76.3	55.2	56.1	72.9	99.9	151.7	199.1	228.5	129.6	1554.9
13 1986	203.0	148.2	149.2	101.7	67.7	59.6	60.7	83.0	104.0	145.4	170.0	180.9	122.7	1472.3
14 1987	189.1	144.2	164.6	102.1	57.8	50.8	62.0	77.6	106.8	135.5	175.8	186.3	121.0	1452.5
15 1988	201.9	151.9	176.8	103.9	59.0	56.0	80.8	43.8	143.3	168.4	225.4	170.9	131.8	1582.0
16 1989	155.3	144.7	159.2	113.6	86.0	43.8	75.0	43.8	113.6	170.9	201.4	207.0	126.2	1514.3
17 1990	154.0	171.1	140.7	93.8	79.0	55.9	43.8	103.8	109.6	156.5	178.3	212.3	125.3	1503.9
18 1991	208.8	172.9	169.1	117.5	87.5	61.8	63.4	79.6	110.1	147.2	197.7	183.5	133.2	1599.0
19 1992	213.2	178.0	134.5	104.2	62.2	55.6	47.5	73.2	97.7	152.8	176.0	221.6	126.4	1516.4
20 1993	194.9	171.5	155.1	125.4	94.4	59.6	64.5	93.4	93.3	158.3	185.6	208.3	133.7	1604.4
Mean	186.5	155.0	149.3	104.3	72.0	51.4	60.5	78.9	106.8	149.7	175.3	191.4	123.4	1481.3

Monthly Mean Evaporatio (No. 28)
 St. No. 02554026 Sao Miguel
 1974 - 1993 (20 Years)



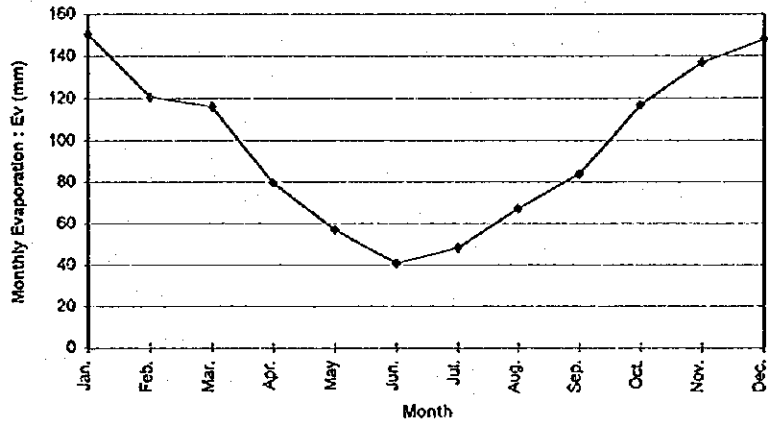
Annual Evaporation (No. 28)
 St. No. 02554026 Sao Miguel
 1974 - 1993 (20 Years)



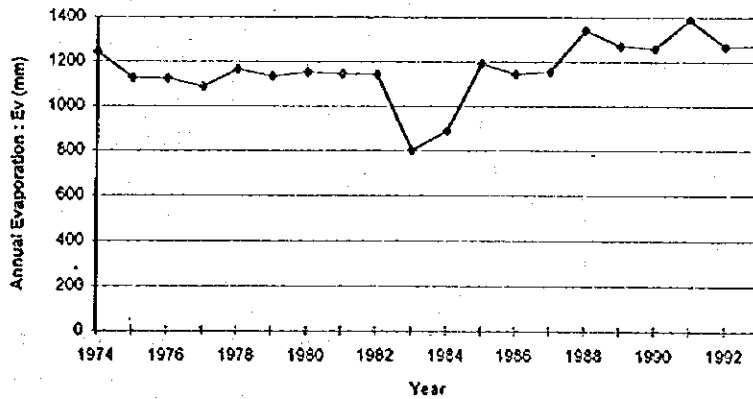
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02651007 (No.29)
 St. Name Porto Uniao

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	151.9	134.1	119.2	92.4	64.2	32.3	46.9	74.5	88.5	129.0	163.8	146.5	103.6	1243.3
2 1975	157.9	131.6	108.2	81.3	55.7	40.6	42.3	64.0	74.1	104.3	131.0	135.9	93.9	1126.6
3 1976	129.7	126.0	115.3	77.0	49.6	41.0	40.0	65.7	71.0	113.6	140.2	155.3	93.7	1124.1
4 1977	116.7	125.5	100.1	82.9	56.0	43.9	53.2	57.0	87.3	109.6	106.2	149.8	90.7	1088.1
5 1978	154.0	121.0	110.7	75.7	66.2	39.1	42.6	58.3	93.5	120.2	125.7	158.0	97.1	1165.0
6 1979	175.5	129.7	118.0	73.7	47.9	39.3	41.8	64.5	81.2	106.0	130.3	126.9	94.6	1134.8
7 1980	163.9	123.4	124.6	87.7	52.8	39.0	41.7	60.9	74.8	106.0	133.9	143.5	96.0	1152.1
8 1981	146.4	120.0	125.0	79.9	64.0	35.8	43.0	67.4	81.7	111.6	134.9	135.9	95.5	1145.6
9 1982	171.5	106.2	121.6	88.2	55.8	34.5	47.5	66.8	90.7	110.7	106.7	143.2	95.3	1143.4
10 1983	142.8	115.8	119.5	70.4	45.8	20.1	25.6	33.5	39.8	56.1	62.2	70.6	66.9	802.3
11 1984	71.1	60.3	54.8	38.5	49.8	39.5	45.0	51.5	84.5	132.8	117.3	143.7	74.1	868.8
12 1985	173.9	108.2	115.3	75.2	56.7	40.2	44.3	56.4	76.7	121.6	155.8	167.4	99.3	1191.7
13 1986	155.7	117.8	114.5	75.1	51.5	45.7	48.9	64.3	80.9	117.8	131.1	143.5	95.4	1144.8
14 1987	181.5	106.3	128.8	75.1	42.7	37.6	46.6	58.2	76.5	104.8	146.9	148.9	96.2	1154.9
15 1988	165.6	126.2	145.4	83.6	48.8	34.8	68.1	96.2	113.2	144.4	178.3	136.2	111.7	1340.6
16 1989	122.4	119.8	126.5	89.4	68.6	48.4	62.0	81.4	91.7	136.2	158.9	165.4	105.9	1270.7
17 1990	129.3	141.8	117.7	82.0	64.5	43.0	50.1	86.1	95.1	125.3	143.9	175.8	105.0	1259.5
18 1991	181.6	152.8	132.8	90.0	72.0	51.6	70.7	82.6	104.7	129.6	160.3	157.9	115.5	1386.5
19 1992	173.1	128.0	107.2	80.2	56.3	53.0	54.0	70.2	93.8	123.3	148.5	179.6	105.6	1267.2
20 1993	142.5	119.1	115.7	92.6	69.5	51.5	53.6	83.4	76.6	132.2	160.1	173.4	105.9	1270.3
Mean	150.3	120.7	116.0	79.6	56.9	40.8	48.3	67.1	83.8	116.8	136.8	147.6	97.1	1165.0

Monthly Mean Evaporatio (No. 29)
 St. No. 02651007 Porto Uniao
 1974 - 1993 (20 Years)



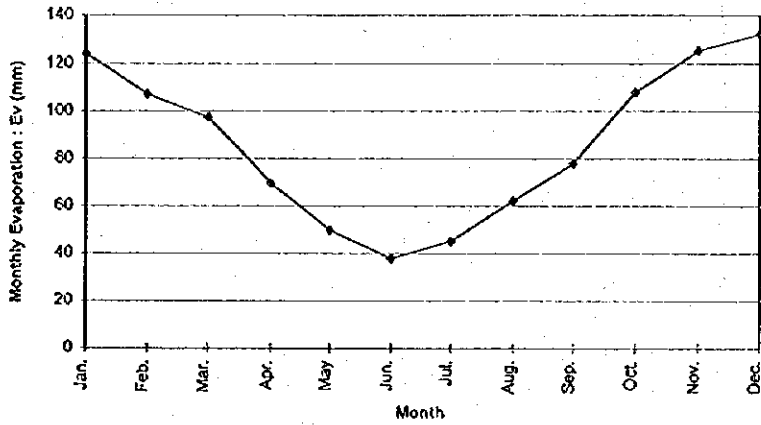
Annual Evaporation (No. 29)
 St. No. 02651007 Porto Uniao
 1974 - 1993 (20 Years)



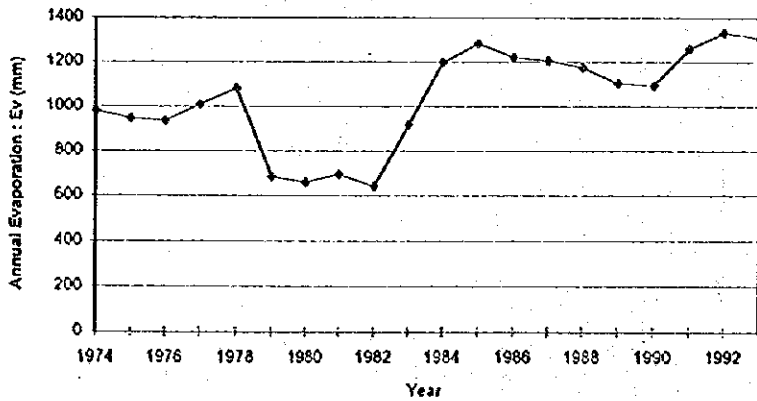
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02651043 (No 30)
 St. Name Palmas

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	117.8	110.6	50.3	72.7	52.0	34.1	42.6	56.0	77.9	104.7	125.1	136.6	81.7	580.5
2 1975	122.5	109.2	97.7	66.1	45.6	37.5	39.1	55.1	64.2	84.6	110.6	113.5	78.9	945.7
3 1976	104.3	109.7	97.1	71.9	43.9	32.7	39.9	55.3	60.5	58.2	110.4	112.4	78.0	936.2
4 1977	101.2	119.4	88.9	68.7	50.6	39.0	43.2	53.6	78.2	110.5	115.5	135.7	84.1	1009.5
5 1978	147.2	120.5	111.1	81.6	54.1	37.9	40.9	52.4	78.0	103.0	114.3	140.3	90.1	1281.3
6 1979	77.6	66.3	60.6	43.2	32.0	26.5	38.1	58.3	69.5	63.6	69.5	78.6	57.0	683.8
7 1980	77.0	66.1	63.5	45.5	34.6	26.4	29.9	38.4	45.2	82.9	70.9	78.7	55.0	680.0
8 1981	79.9	66.8	61.4	45.0	35.6	26.4	39.8	58.2	71.3	61.6	71.2	77.0	57.8	694.1
9 1982	78.0	65.6	61.8	44.7	33.3	28.1	30.5	40.0	49.7	62.6	70.8	77.5	53.5	642.6
10 1983	79.9	65.8	60.3	45.8	35.4	26.7	37.2	68.8	80.4	117.5	142.7	159.1	76.6	919.6
11 1984	153.7	148.5	111.2	78.2	60.3	34.7	42.4	59.6	93.8	142.8	120.1	153.8	99.9	1199.0
12 1985	186.3	116.0	118.4	78.6	60.0	45.7	50.1	65.1	86.1	132.7	167.3	177.0	106.9	1283.2
13 1986	169.0	121.3	125.2	80.2	57.3	49.9	49.5	69.4	85.9	127.2	143.9	141.6	101.7	1220.4
14 1987	162.8	117.9	135.5	79.5	48.4	41.7	52.7	66.3	81.1	115.3	155.0	150.5	100.6	1206.6
15 1988	138.0	113.0	131.4	70.9	42.1	38.6	59.9	82.9	97.6	121.3	154.5	124.9	97.9	1175.0
16 1989	105.8	103.1	114.3	83.7	58.9	39.7	47.9	71.7	81.2	124.9	136.6	136.4	92.0	1104.0
17 1990	110.5	127.3	99.9	72.8	60.5	41.8	45.1	67.2	80.6	110.6	128.2	150.6	91.3	1095.1
18 1991	159.3	137.4	114.2	81.9	63.9	43.7	50.9	67.1	83.8	118.0	172.0	161.7	105.0	1259.8
19 1992	189.0	139.3	119.5	88.5	58.8	54.4	59.6	72.5	100.8	133.9	155.3	163.0	111.1	1332.7
20 1993	123.7	121.0	126.1	93.2	70.2	52.7	57.6	86.5	87.9	142.9	173.8	173.6	109.1	1309.2
Mean	124.2	107.3	97.4	69.6	49.9	37.9	45.1	62.2	78.0	107.9	125.4	132.1	86.4	1037.0

Monthly Mean Evaporation (No. 30)
 St. No. 02651043 Palmas
 1974 - 1993 (20 Years)



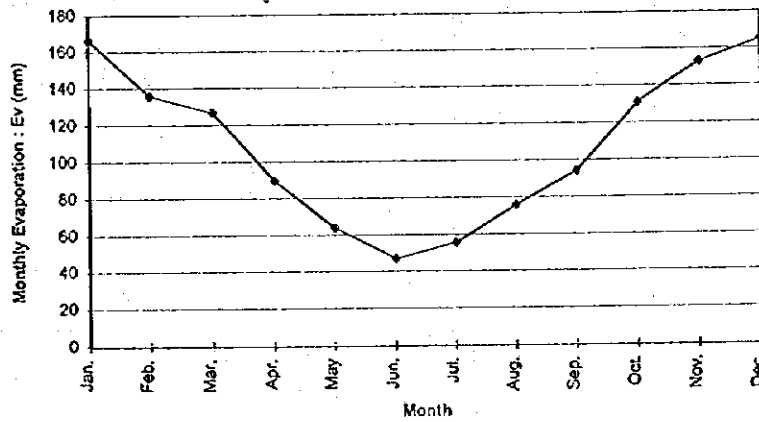
Annual Evaporation (No. 30)
 St. No. 02651043 Palmas
 1974 - 1993 (20 Years)



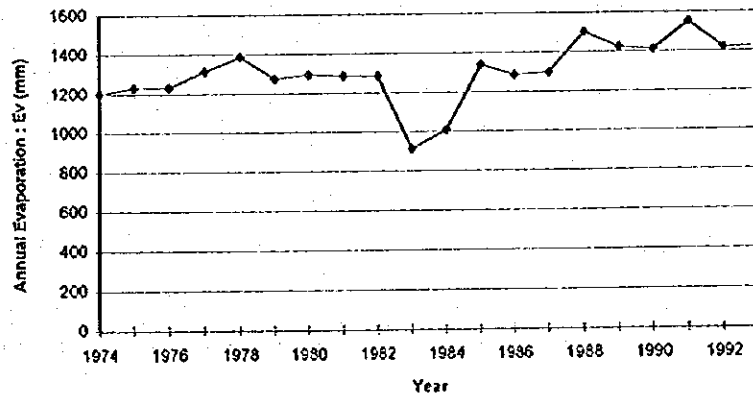
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02652003 (No 31)
 St. Name Clevelandia

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	152.5	136.2	57.3	88.7	58.8	38.2	54.2	71.0	93.9	131.0	159.9	160.8	100.2	1202.6
2 1975	155.2	139.4	120.7	84.9	63.9	47.3	49.2	72.9	83.9	117.0	146.1	151.5	102.7	1231.9
3 1976	139.0	143.1	123.9	88.5	50.1	38.0	44.5	70.4	80.5	129.3	153.1	172.6	102.8	1233.2
4 1977	141.7	154.8	118.3	93.6	67.9	49.4	61.7	70.0	103.3	137.7	144.0	171.0	109.4	1313.1
5 1978	185.8	157.8	140.1	103.9	68.1	45.3	50.8	67.0	97.8	135.5	149.8	184.4	115.5	1386.3
6 1979	194.8	144.7	131.9	83.5	55.3	45.8	48.7	73.4	91.7	118.8	145.4	141.6	106.3	1275.6
7 1980	182.1	137.8	139.1	98.8	60.6	45.6	48.5	69.5	84.7	118.9	149.3	159.8	107.9	1294.6
8 1981	162.9	134.2	139.6	90.2	72.9	42.1	49.9	78.6	92.3	124.9	150.4	151.5	107.3	1287.5
9 1982	190.4	119.0	135.9	99.4	64.0	40.7	54.9	76.0	102.0	124.0	119.5	159.5	107.1	1285.1
10 1983	159.0	129.6	133.6	79.9	53.0	24.9	30.9	39.5	46.5	64.2	70.9	80.1	76.0	912.1
11 1984	80.7	68.8	62.9	45.0	57.4	45.1	52.1	59.2	95.3	148.1	131.1	160.0	83.9	1006.6
12 1985	193.0	121.2	129.0	85.2	64.9	46.9	51.3	64.5	88.8	135.9	173.2	185.9	111.5	1337.8
13 1986	173.1	131.7	128.0	85.0	59.2	52.9	54.2	73.2	91.4	131.7	148.3	159.8	107.2	1266.5
14 1987	201.3	119.1	143.7	85.1	49.7	44.0	53.9	66.5	86.6	117.5	163.5	165.7	108.1	1297.5
15 1988	184.0	140.9	161.8	94.2	56.3	41.0	77.4	108.1	126.7	160.7	197.8	151.8	125.1	1500.6
16 1989	136.8	133.9	141.2	100.6	77.9	55.8	70.7	92.0	103.2	151.8	176.7	183.7	118.7	1424.2
17 1990	144.3	157.9	131.5	92.6	73.4	55.4	57.7	97.0	106.9	139.9	160.2	195.2	117.7	1411.9
18 1991	201.4	170.0	148.1	101.4	81.6	59.3	80.3	93.2	117.4	144.6	178.1	175.5	129.2	1550.8
19 1992	152.1	142.8	120.2	90.6	64.4	60.9	61.9	79.6	105.5	137.7	165.3	199.3	118.4	1420.4
20 1993	158.7	133.1	129.4	104.2	78.9	59.2	61.5	94.1	85.7	147.5	178.0	192.5	118.6	1423.7
Mean	166.4	135.8	128.8	89.8	63.9	46.9	55.7	75.7	94.1	130.8	152.9	165.1	108.7	1304.1

Monthly Mean Evaporatio (No. 31)
 St. No. 02652003 Clevelandia
 1974 - 1993 (20 Years)



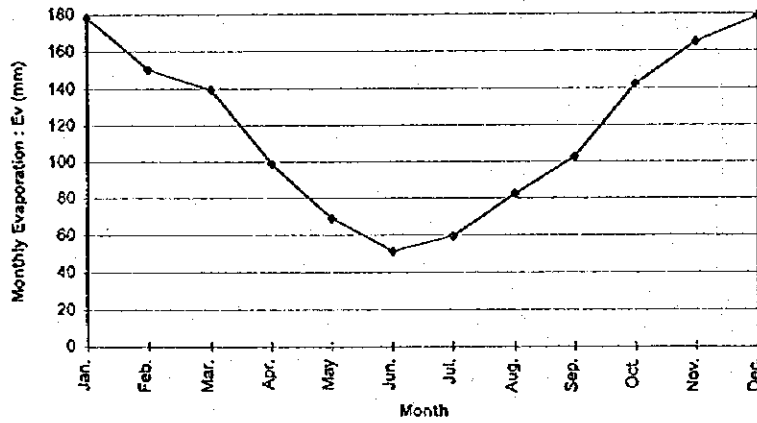
Annual Evaporation (No. 31)
 St. No. 02652003 Clevelandia
 1974 - 1993 (20 Years)



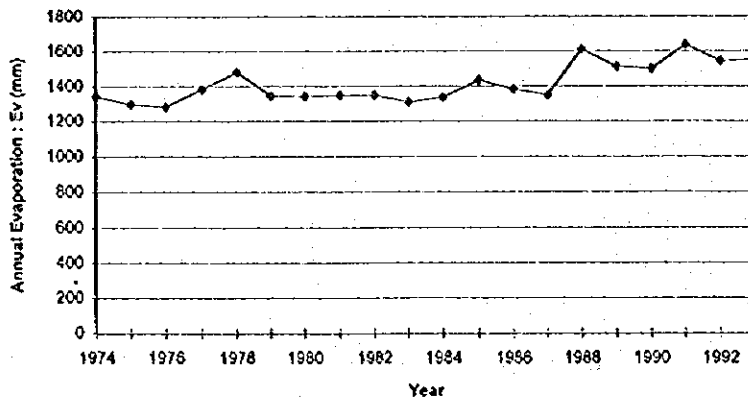
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02652035 (No 32)
 St. Name Pato Branco

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	161.4	151.6	88.9	99.5	71.3	46.7	58.4	76.7	106.7	143.5	171.4	187.1	111.9	1343.1
2 1975	167.7	149.5	133.0	90.6	63.8	51.4	53.6	75.5	87.9	115.9	151.5	155.5	108.1	1296.9
3 1976	142.9	150.3	133.0	98.5	60.2	44.8	54.6	75.0	82.8	134.5	151.2	153.9	106.9	1282.5
4 1977	138.6	153.6	121.8	94.1	69.3	53.4	66.0	73.5	107.1	151.3	158.2	185.9	115.2	1382.8
5 1978	201.7	165.1	152.1	111.8	74.1	51.9	56.0	71.8	106.8	141.1	156.6	192.1	123.4	1481.2
6 1979	199.7	150.3	145.2	88.4	58.1	49.3	52.2	79.8	95.2	124.1	156.4	149.4	112.2	1346.0
7 1980	187.7	148.1	149.1	103.2	63.6	48.2	50.7	71.2	90.7	113.6	157.0	160.6	112.0	1343.7
8 1981	169.0	135.3	150.0	95.7	77.5	43.9	54.5	79.7	97.7	130.8	153.8	160.1	112.3	1348.0
9 1982	201.5	123.7	145.1	107.0	69.2	41.7	58.2	80.5	107.1	127.5	121.6	166.5	112.4	1349.4
10 1983	176.9	141.3	141.3	85.5	58.1	37.1	42.4	76.2	87.1	130.1	154.1	179.9	109.2	1309.9
11 1984	164.5	163.3	127.4	86.1	68.9	47.5	58.1	64.0	104.4	157.7	129.3	166.1	111.4	1337.2
12 1985	207.2	132.7	132.0	91.2	69.6	51.8	55.8	72.6	94.0	147.5	184.1	195.1	119.6	1434.7
13 1986	190.7	140.5	135.0	92.6	63.1	65.9	58.4	77.0	96.6	146.0	157.3	170.2	115.3	1383.2
14 1987	179.5	128.4	155.8	92.1	52.5	46.5	57.1	71.3	95.4	125.8	168.6	176.7	112.5	1349.4
15 1988	189.1	154.7	180.0	97.1	57.7	52.8	82.0	113.6	133.7	166.2	211.7	171.0	134.1	1609.5
16 1989	144.9	141.3	156.5	114.6	80.6	54.4	65.6	98.2	111.2	171.0	187.2	186.8	126.0	1512.4
17 1990	151.4	174.4	136.9	99.7	82.9	67.2	61.8	92.1	110.4	151.6	175.6	206.3	125.0	1500.2
18 1991	218.2	188.2	158.4	112.2	85.0	63.4	73.0	97.9	124.6	154.8	183.4	180.0	136.4	1637.0
19 1992	204.8	155.3	126.4	101.4	65.3	66.3	66.2	89.4	116.0	153.5	176.7	223.3	128.7	1544.6
20 1993	169.5	149.6	144.3	115.7	88.8	63.6	63.0	110.1	97.6	159.1	189.3	203.4	129.5	1554.0
Mean	178.3	150.4	139.6	98.8	69.0	51.3	59.4	82.3	102.6	142.3	164.7	178.5	118.1	1417.3

Monthly Mean Evaporatio (No. 32)
 St. No. 02652035 Pato Branco
 1974 - 1993 (20 Years)



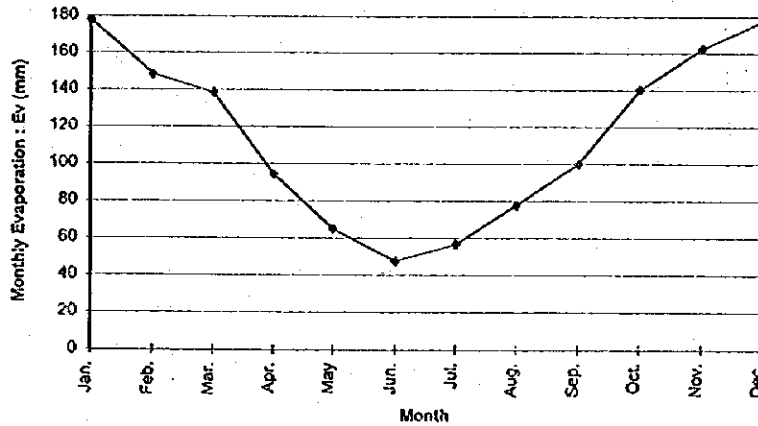
Annual Evaporation (No. 32)
 St. No. 02652035 Pato Branco
 1974 - 1993 (20 Years)



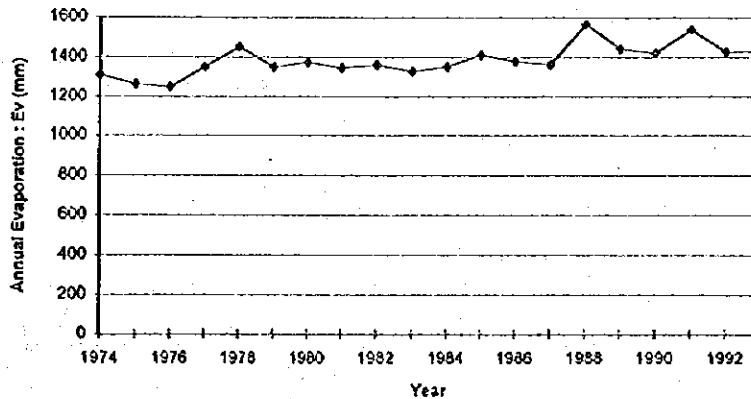
Monthly Evaporation Table Period 1974 - 1993 (20 years)
 St. No. 02653012 (No.33)
 St. Name Francisco

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	159.0	149.1	65.1	66.9	68.5	43.8	55.6	73.9	104.1	141.0	169.1	124.8	109.3	1311.9
2 1975	165.4	147.1	131.3	87.9	61.0	48.6	50.8	72.8	85.2	113.4	149.1	153.1	105.5	1265.5
3 1976	140.6	147.9	130.5	95.8	57.4	41.9	51.8	73.1	80.1	132.0	148.7	151.5	104.3	1251.1
4 1977	135.2	151.2	119.3	91.4	66.6	50.6	63.2	70.7	104.5	148.9	155.8	183.6	112.7	1351.8
5 1978	199.5	162.7	149.7	109.2	71.3	49.1	53.2	69.0	104.2	138.7	154.2	189.9	120.9	1450.6
6 1979	207.1	149.1	149.3	88.0	59.2	45.1	50.6	77.4	94.1	123.8	155.9	151.2	112.7	1351.8
7 1980	192.7	148.6	148.9	104.4	62.5	45.7	51.7	73.4	90.0	128.3	154.6	173.2	114.6	1375.1
8 1981	169.4	133.3	152.3	92.0	76.1	43.4	56.4	78.7	96.7	132.2	156.6	161.2	112.4	1348.3
9 1982	206.4	127.0	148.8	105.3	67.4	41.0	58.3	81.1	106.6	129.0	121.7	169.7	113.5	1362.4
10 1983	175.5	140.6	143.0	85.9	58.1	37.2	42.3	76.0	88.6	138.3	153.2	191.0	110.8	1329.7
11 1984	172.3	168.3	127.6	84.4	67.3	47.0	56.7	62.2	105.2	156.3	137.2	168.5	112.7	1352.9
12 1985	207.8	130.1	135.1	90.7	67.2	49.4	53.8	68.0	90.6	142.8	182.6	194.2	117.7	1412.3
13 1986	186.3	135.0	138.1	89.1	60.3	54.5	57.2	76.5	99.3	143.5	163.3	176.5	115.0	1379.7
14 1987	182.1	132.8	156.8	88.1	52.4	44.3	56.4	72.8	96.7	126.7	172.8	182.6	113.7	1364.5
15 1988	185.1	152.3	176.0	93.1	57.4	55.5	73.0	102.8	131.2	165.1	210.2	152.7	130.4	1565.4
16 1989	141.0	138.8	146.8	100.9	73.8	51.6	62.8	84.1	103.9	162.7	181.6	193.7	120.1	1441.7
17 1990	155.5	172.1	134.4	89.6	69.4	49.8	55.6	89.4	104.5	143.4	167.1	192.0	118.6	1422.6
18 1991	206.0	168.5	156.9	102.3	73.2	53.8	71.2	88.1	118.2	150.9	176.3	173.5	128.2	1538.3
19 1992	198.2	150.7	124.3	90.0	59.2	52.5	53.8	77.4	105.1	143.3	167.3	205.6	118.9	1427.3
20 1993	171.9	147.5	135.1	101.4	72.0	48.7	59.3	87.5	99.0	144.2	174.3	199.2	119.3	1431.0
Mean	177.9	148.1	138.5	94.3	65.0	47.8	56.7	77.7	99.9	140.3	162.6	177.9	115.6	1385.7

Monthly Mean Evaporation (No. 33)
 St. No. 02653012 Francisco
 1974 - 1993 (20 Years)



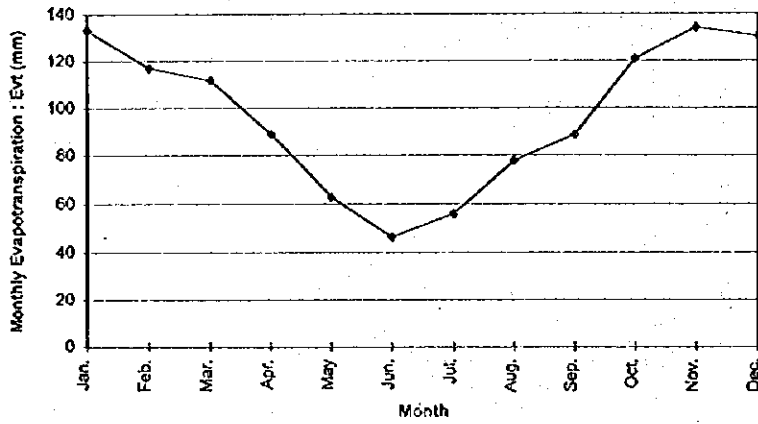
Annual Evaporation (No. 33)
 St. No. 02653012 Francisco
 1974 - 1993 (20 Years)



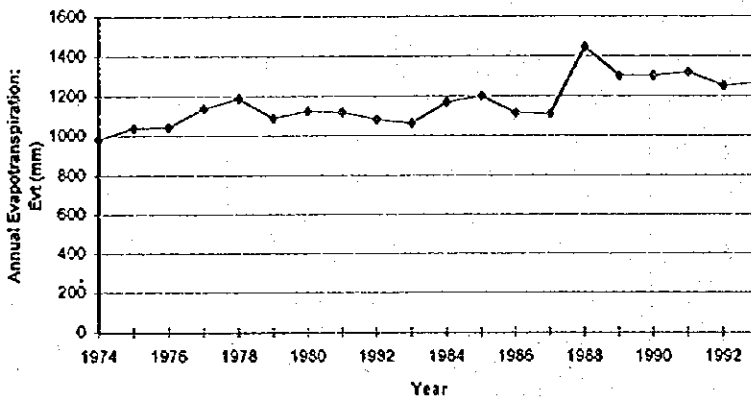
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02251027 (No. 1)
 St. Name Bela Vista

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	101.3	116.3	58.4	80.8	58.4	35.8	57.5	66.5	89.2	102.7	130.5	85.1	81.9	982.3
2 1975	118.9	97.7	102.6	65.0	57.2	44.4	45.9	85.1	79.4	100.8	105.1	118.1	86.5	1038.2
3 1976	118.9	104.6	111.9	76.8	51.8	40.6	46.8	66.0	66.3	107.0	126.1	127.4	87.0	1043.9
4 1977	108.7	132.1	118.7	81.9	65.3	43.8	63.0	74.3	88.7	125.0	114.0	122.5	94.8	1138.2
5 1978	141.1	137.5	115.2	98.4	67.1	45.8	52.1	65.4	83.1	125.3	121.6	136.1	99.1	1188.6
6 1979	135.5	125.0	115.1	80.0	54.6	47.6	43.3	78.4	75.9	109.3	122.3	103.7	90.9	1090.5
7 1980	134.4	109.5	121.3	84.6	59.7	44.2	49.6	69.3	71.2	120.7	125.4	135.4	93.8	1125.3
8 1981	125.7	120.8	118.8	85.7	73.0	41.7	45.9	74.2	90.5	93.5	135.3	114.4	93.3	1119.4
9 1982	139.1	113.0	101.8	88.4	59.6	42.3	52.7	65.8	88.7	109.0	113.0	110.1	90.3	1083.5
10 1983	127.7	111.4	109.0	77.5	51.8	34.9	51.7	77.0	62.2	102.7	133.0	124.5	88.6	1063.3
11 1984	147.2	139.4	105.5	76.9	66.9	53.5	57.9	64.1	87.3	129.0	125.5	117.6	97.6	1170.7
12 1985	143.6	112.2	106.0	85.0	63.1	43.1	47.8	79.2	91.8	126.4	145.4	156.3	100.0	1199.8
13 1986	139.9	102.1	109.8	97.8	55.8	51.4	47.8	61.1	82.1	124.0	128.3	115.9	93.0	1116.1
14 1987	131.2	101.4	121.7	83.7	48.7	41.8	59.3	69.4	77.3	106.7	131.5	138.0	92.6	1110.6
15 1988	162.5	113.5	137.3	93.7	59.6	60.4	76.6	121.4	140.0	143.3	172.7	162.9	120.5	1445.7
16 1989	108.5	108.7	125.6	103.5	81.5	57.0	74.6	88.5	104.7	153.0	148.6	147.5	108.5	1302.6
17 1990	126.8	143.2	128.9	109.1	72.9	33.3	55.7	87.7	108.8	143.1	137.3	155.7	108.5	1302.4
18 1991	149.5	132.2	98.1	98.9	79.1	58.3	73.2	96.7	109.6	132.9	155.8	135.6	109.9	1319.4
19 1992	163.2	125.6	99.6	85.4	59.5	58.5	58.2	80.3	85.2	125.6	147.0	165.2	104.5	1253.4
20 1993	142.5	93.3	128.5	105.6	71.8	51.9	59.5	84.3	91.4	134.4	163.7	138.9	105.5	1265.5
Mean	133.3	117.0	111.7	88.9	62.9	45.5	56.0	77.7	88.6	120.8	134.1	130.4	97.3	1168.6

Monthly Mean Evapotranspiration (No. 1)
 St. No. 02251027 Bela Vista
 1974 - 1993 (20 Years)



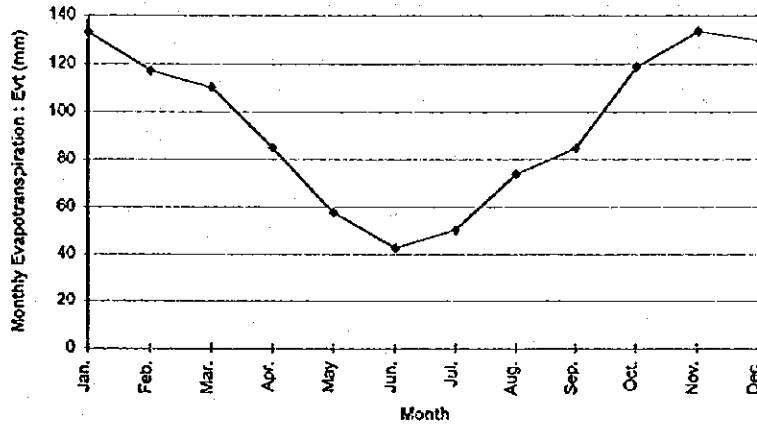
Annual Evapotranspiration (No. 1)
 St. No. 02251027 Bela Vista
 1974 - 1993 (20 Years)



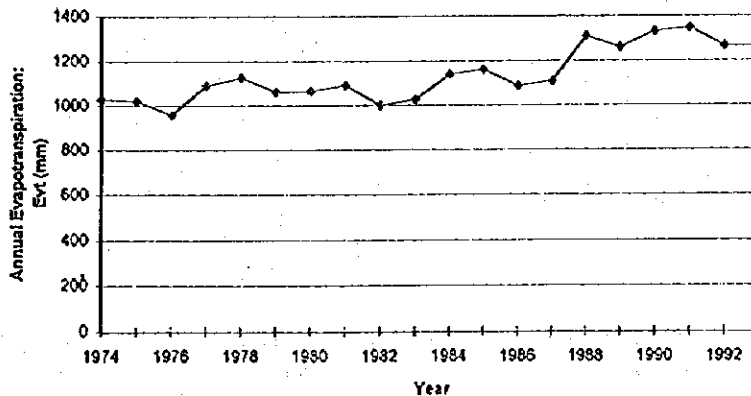
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02349030 (No.2)
 St. Name Joaquim

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	113.6	122.6	91.3	77.1	53.1	36.3	47.6	62.1	85.3	104.2	134.3	101.0	85.7	1028.4
2 1975	127.7	104.1	116.2	81.7	52.3	40.3	39.0	73.6	82.5	99.5	99.6	103.8	85.0	1020.2
3 1976	113.1	74.4	101.9	68.4	44.9	34.1	41.6	59.7	65.8	103.1	134.1	117.9	79.9	959.0
4 1977	117.3	132.4	115.3	74.7	54.9	38.7	52.3	68.1	85.0	120.3	107.1	123.8	90.6	1089.9
5 1978	137.7	130.6	107.8	91.1	52.8	38.9	44.9	58.6	79.2	124.8	122.7	135.8	93.8	1125.0
6 1979	136.5	124.8	118.8	78.6	48.3	39.9	39.5	66.4	69.9	111.6	119.6	106.7	83.4	1060.6
7 1980	129.0	104.3	118.5	83.8	54.2	37.8	44.3	63.3	70.0	110.5	126.1	122.6	88.7	1064.2
8 1981	120.8	128.6	115.9	83.9	64.2	37.1	39.5	65.0	88.1	94.4	132.6	119.8	90.8	1089.8
9 1982	128.1	111.6	52.8	84.5	52.6	38.6	45.9	70.1	89.3	99.2	118.7	111.1	83.5	1002.4
10 1983	134.1	112.0	102.3	69.2	47.0	33.5	47.5	70.1	62.8	102.7	127.5	118.1	85.6	1026.7
11 1984	149.7	150.8	105.4	71.8	59.8	45.5	50.6	59.5	81.1	125.0	122.1	118.5	95.0	1139.6
12 1985	135.4	111.2	102.7	83.1	55.9	37.7	46.0	74.5	87.5	131.5	146.6	149.1	96.8	1161.1
13 1986	144.6	98.9	111.0	91.8	49.7	47.0	46.2	57.0	77.2	121.4	130.7	112.1	90.6	1087.5
14 1987	130.6	100.0	122.3	82.4	45.1	36.1	54.3	85.4	77.9	111.6	123.4	139.1	92.3	1108.1
15 1988	156.7	104.9	129.2	72.2	56.3	59.4	71.6	100.7	124.0	134.7	156.4	145.9	109.3	1312.0
16 1989	101.0	107.7	126.7	100.9	78.0	54.9	64.8	83.6	98.9	145.9	150.8	148.7	105.2	1262.0
17 1990	128.8	156.4	130.4	109.6	75.0	35.4	56.7	93.2	101.5	142.9	142.7	159.0	111.0	1331.6
18 1991	142.0	137.7	106.8	101.6	76.9	57.3	72.5	95.8	112.7	139.0	163.6	140.9	112.3	1347.0
19 1992	176.8	133.8	103.5	89.7	62.9	60.2	44.6	88.9	72.3	126.9	141.2	166.7	105.6	1267.4
20 1993	142.1	97.6	129.2	102.7	69.0	46.4	58.2	80.7	83.6	129.1	171.6	157.3	105.6	1267.3
Mean	133.3	117.2	110.4	84.9	57.6	42.8	50.4	73.8	84.7	118.9	133.6	129.6	94.8	1137.5

Monthly Mean Evapotranspiration (No. 2)
 St. No. 02349030 Joaquim
 1974 - 1993 (20 Years)



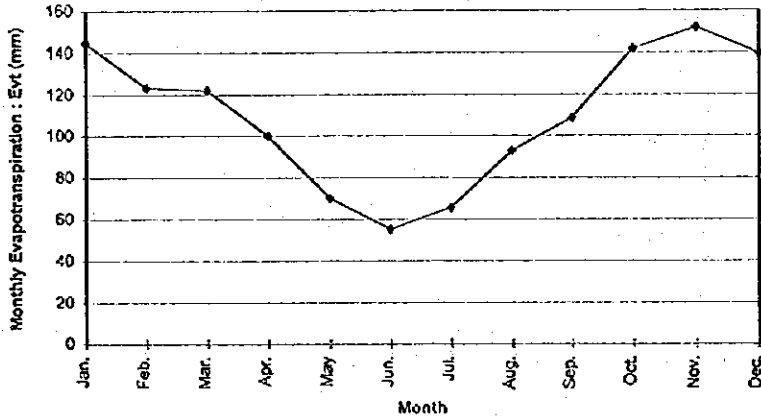
Annual Evapotranspiration (No. 2)
 St. No. 02349030 Joaquim
 1974 - 1993 (20 Years)



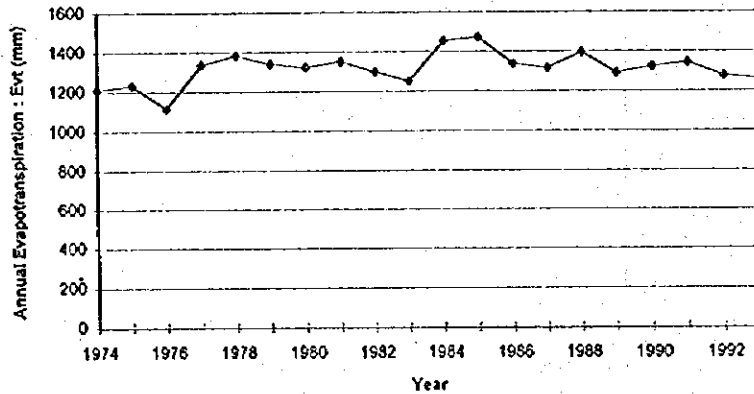
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02350017 (No.3)
 St. Name Cambara

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	121.9	122.1	106.5	96.5	71.6	47.8	53.8	85.5	114.1	110.6	166.1	112.4	101.0	1211.8
2 1975	145.6	112.9	130.0	100.6	76.3	54.2	51.7	94.3	110.0	118.5	120.1	116.9	102.6	1231.1
3 1976	126.5	107.3	114.0	81.1	55.2	43.7	54.0	73.8	78.6	125.2	139.8	116.2	92.9	1115.1
4 1977	119.0	136.4	126.3	99.9	76.8	54.7	76.5	105.4	117.5	158.5	126.4	139.6	111.3	1335.8
5 1978	157.2	153.9	126.8	111.8	71.5	53.3	64.9	85.9	111.6	155.8	151.0	138.2	115.3	1383.0
6 1979	156.8	142.3	138.0	103.9	65.3	66.0	62.4	95.3	97.2	144.9	149.6	119.3	111.7	1340.2
7 1980	145.3	102.1	128.1	99.8	72.3	60.3	67.3	93.3	102.6	150.5	157.3	144.5	110.3	1323.3
8 1981	133.1	140.2	138.2	106.0	87.1	53.7	67.3	100.3	128.3	113.7	157.0	126.6	112.6	1351.5
9 1982	150.3	124.2	117.7	109.0	76.3	54.6	63.4	88.8	128.0	137.5	132.1	118.6	108.2	1298.4
10 1983	148.6	121.7	124.2	88.0	57.1	45.1	69.2	106.4	86.4	127.9	143.6	134.6	104.4	1252.7
11 1984	169.9	154.9	127.7	94.8	77.8	68.8	85.7	85.5	113.3	170.9	160.1	133.9	121.1	1453.4
12 1985	152.2	122.9	116.3	98.4	74.4	53.5	71.5	106.9	131.1	176.9	183.4	164.9	122.7	1472.2
13 1986	160.9	112.5	118.1	113.2	67.8	65.4	71.8	79.0	118.4	157.9	151.4	123.6	111.5	1337.9
14 1987	143.2	103.8	133.9	97.6	54.1	51.2	75.4	101.0	109.0	131.5	158.7	157.3	109.7	1316.7
15 1988	159.0	119.0	133.2	88.8	57.8	55.2	70.5	105.4	137.1	141.9	167.5	160.2	115.3	1395.5
16 1989	115.6	106.1	124.7	103.1	78.3	53.4	61.5	83.8	104.4	160.2	149.3	147.8	107.8	1293.1
17 1990	127.6	143.2	121.6	119.6	69.2	54.4	54.7	85.1	96.7	147.5	142.3	160.7	110.3	1323.8
18 1991	153.8	125.3	101.1	99.8	79.0	57.9	66.5	97.2	113.6	140.7	169.5	141.1	112.1	1345.4
19 1992	163.4	125.9	98.6	87.6	62.9	61.8	63.0	84.6	88.9	128.5	142.1	170.0	106.4	1277.3
20 1993	144.8	93.0	120.4	101.7	73.3	52.2	60.2	80.1	87.8	136.6	167.7	144.1	105.1	1261.8
Mean	144.7	123.5	122.2	100.0	70.2	55.4	65.6	92.8	108.7	141.8	151.7	139.5	109.7	1316.0

Monthly Mean Evapotranspiration (No. 3)
 St. No. 02350017 Cambara
 1974 - 1993 (20 Years)



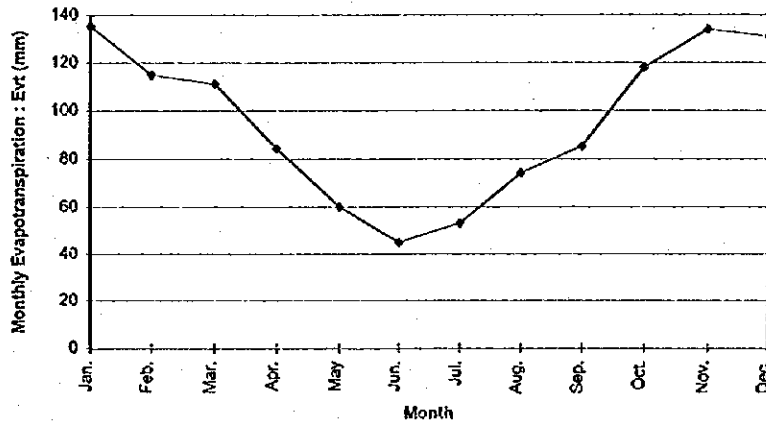
Annual Evapotranspiration (No. 3)
 St. No. 02350017 Cambara
 1974 - 1993 (20 Years)



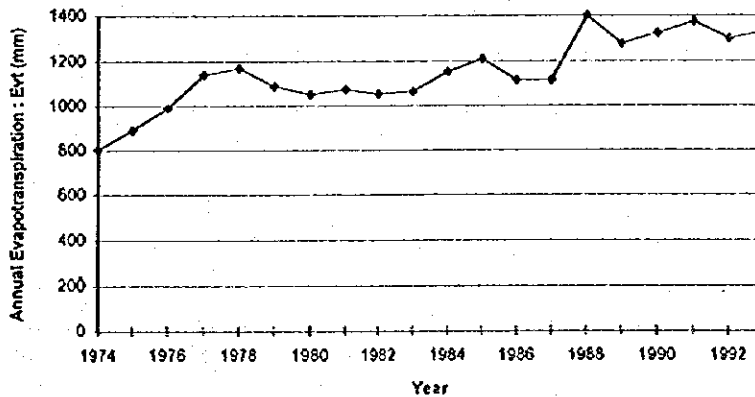
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02350018 (No.4)
 St. Name Bandeirantes

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	94.7	109.2	53.4	40.4	31.2	15.9	52.2	42.9	70.9	88.2	123.8	80.6	66.9	803.3
2 1975	120.4	84.8	101.9	89.2	36.9	20.7	21.3	61.1	85.9	86.5	84.7	115.6	74.1	889.0
3 1976	122.4	99.0	109.1	73.4	47.4	37.6	44.6	43.7	44.7	112.5	133.8	122.4	82.5	990.8
4 1977	110.6	134.0	121.6	78.5	62.3	43.6	61.0	75.0	91.8	125.2	110.1	126.9	95.0	1149.3
5 1978	146.7	137.1	113.0	94.7	58.2	43.2	30.0	64.0	84.2	133.1	124.0	140.7	97.4	1168.8
6 1979	139.4	125.2	123.0	61.6	52.9	45.9	41.8	74.7	76.7	116.1	121.1	110.5	90.7	1088.8
7 1980	133.7	104.7	116.7	82.5	58.0	42.7	48.6	69.8	51.1	102.8	109.2	132.7	87.7	1052.4
8 1981	127.4	104.3	119.4	88.6	71.4	39.4	44.3	52.9	72.9	96.2	138.1	119.0	89.5	1073.9
9 1982	139.5	116.3	104.2	91.2	58.7	42.2	50.1	67.2	72.4	90.6	114.7	108.7	87.8	1053.8
10 1983	135.3	112.8	108.3	77.1	50.8	35.2	48.9	76.5	63.9	103.6	129.8	123.2	88.8	1065.2
11 1984	140.5	126.1	107.5	79.1	63.8	49.4	55.9	64.7	83.5	131.9	129.9	120.3	96.0	1152.4
12 1985	140.4	118.6	103.2	85.4	59.3	42.0	48.7	78.3	91.7	136.4	143.1	158.3	100.9	1210.2
13 1986	141.0	102.7	108.7	96.3	56.1	50.8	49.4	61.6	81.8	125.3	130.7	110.7	92.9	1115.0
14 1987	134.2	93.8	122.6	84.9	49.2	41.3	58.2	71.0	78.7	107.7	132.0	142.6	93.0	1115.1
15 1988	154.8	111.5	138.3	93.4	59.0	54.0	78.7	117.3	143.0	142.4	165.0	132.3	116.7	1399.8
16 1989	120.2	111.2	107.8	81.2	84.6	58.0	69.7	93.8	110.6	132.3	154.6	154.6	106.5	1278.5
17 1990	131.3	151.3	125.6	112.1	74.6	54.2	56.1	88.4	101.5	124.6	142.5	162.7	110.4	1325.1
18 1991	157.6	134.4	105.6	102.9	84.5	60.9	69.3	98.5	115.4	139.5	163.7	141.7	114.5	1374.1
19 1992	166.1	126.9	98.1	86.5	83.6	63.5	66.3	90.6	92.8	130.8	148.0	168.3	108.5	1301.6
20 1993	142.6	96.4	134.5	109.1	79.3	58.5	66.0	90.7	93.7	135.6	176.1	147.6	110.8	1330.1
Mean	135.4	115.0	111.1	84.4	60.0	44.9	53.0	74.1	85.3	118.1	134.0	131.0	95.5	1145.4

Monthly Mean Evapotranspiration (No. 4)
 St. No. 02350018 Bandeirantes
 1974 - 1993 (20 Years)



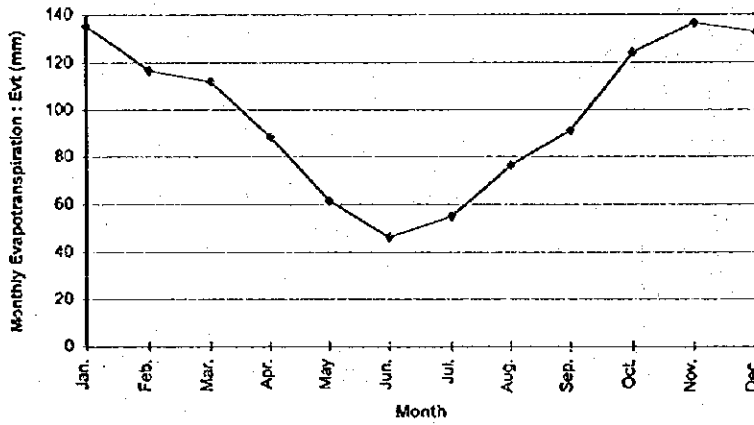
Annual Evapotranspiration (No. 4)
 St. No. 02350018 Bandeirantes
 1974 - 1993 (20 Years)



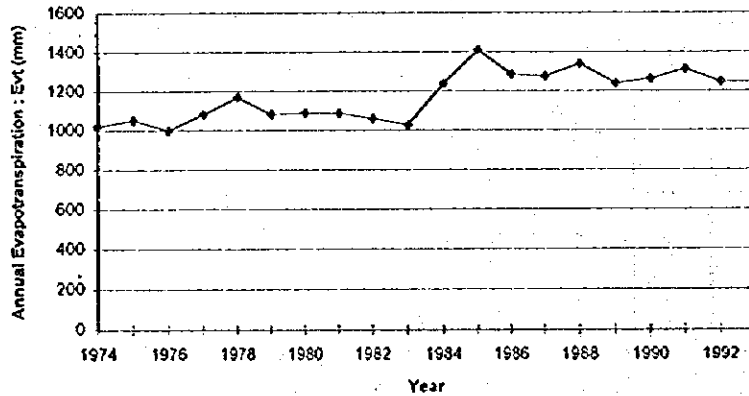
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02351003 (No.5)
 St. Name Londrina

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	109.8	123.3	69.2	82.4	59.7	36.3	53.3	61.4	87.5	103.6	136.9	96.6	65.0	1019.9
2 1975	133.7	100.6	116.5	85.9	55.8	40.7	41.3	78.4	80.4	102.1	100.4	116.0	87.6	1051.7
3 1976	115.2	101.7	105.1	74.4	48.9	37.8	44.2	62.2	63.1	107.1	121.3	118.4	83.3	999.2
4 1977	107.1	126.1	111.7	75.9	60.5	41.2	57.9	69.1	81.1	123.8	105.0	121.7	90.1	1081.1
5 1978	139.6	137.2	111.8	93.9	58.1	41.9	49.4	60.7	81.0	127.2	130.4	137.0	97.3	1168.1
6 1979	136.1	123.8	117.6	78.8	52.5	45.2	41.5	72.6	73.9	112.3	120.3	106.4	90.1	1081.1
7 1980	126.9	105.9	119.5	65.0	57.3	41.6	48.9	64.3	69.1	117.3	123.2	129.2	90.7	1068.1
8 1981	117.8	118.7	119.0	85.0	68.4	38.7	44.0	70.7	89.4	92.7	130.1	111.5	90.5	1085.9
9 1982	140.6	109.6	100.3	87.0	56.5	40.2	48.6	63.0	88.9	105.9	105.4	112.5	88.2	1058.9
10 1983	126.1	106.5	102.8	73.9	50.6	33.2	47.6	72.8	62.4	102.7	127.1	121.8	85.6	1027.4
11 1984	152.4	139.0	109.9	74.8	63.4	48.3	53.4	61.5	113.0	152.7	142.6	130.5	103.2	1238.4
12 1985	162.9	116.9	114.1	93.9	71.4	54.0	68.5	103.0	118.4	154.4	170.9	181.6	117.5	1410.0
13 1986	152.9	108.6	115.2	107.7	63.7	60.3	64.5	77.5	107.7	148.8	155.6	123.1	107.1	1285.6
14 1987	140.0	109.7	137.7	95.9	58.8	48.4	70.2	91.9	99.6	124.8	146.7	152.7	106.4	1276.5
15 1988	151.6	100.6	132.8	85.1	53.2	57.9	69.7	109.2	127.2	138.4	168.3	144.8	111.6	1338.8
16 1989	108.9	102.9	122.0	97.1	75.4	51.1	62.3	80.9	99.6	144.8	150.0	144.0	103.3	1239.3
17 1990	125.2	149.0	119.2	107.0	68.4	48.3	50.6	78.6	96.3	137.7	130.6	151.1	105.2	1261.9
18 1991	147.6	133.5	103.9	97.2	75.6	55.5	67.4	91.1	108.7	134.6	155.4	142.9	109.4	1313.4
19 1992	169.8	128.2	94.8	85.6	57.9	57.4	57.2	78.0	87.7	123.2	143.2	165.8	103.9	1246.9
20 1993	140.0	94.7	122.3	102.2	71.6	49.0	58.6	81.4	87.6	129.7	164.7	145.7	104.0	1247.6
Mean	135.2	116.8	112.1	88.4	61.4	46.3	54.8	76.3	91.1	124.2	136.4	132.7	98.0	1176.0

Monthly Mean Evapotranspiration (No. 5)
 St. No. 02351003 Londrina
 1974 - 1993 (20 Years)



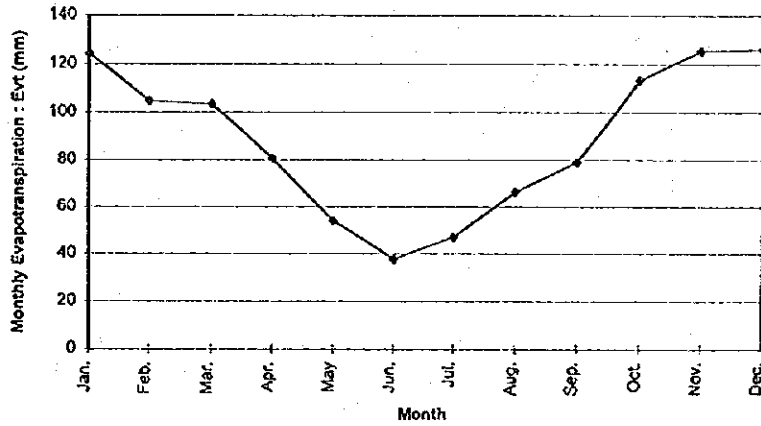
Annual Evapotranspiration (No. 5)
 St. No. 02351003 Londrina
 1974 - 1993 (20 Years)



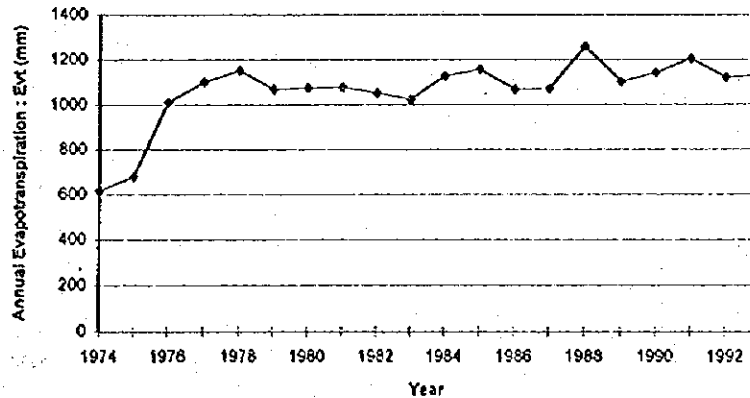
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02351008 (No.6)
 St. Name Apucarana

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	82.7	54.7	52.0	84.5	61.6	14.4	33.8	35.2	44.8	52.8	58.7	62.2	51.5	617.5
2 1975	63.0	54.3	52.7	40.2	30.9	25.7	26.5	37.9	44.2	89.5	104.2	111.7	56.7	680.7
3 1976	113.0	101.6	108.9	77.1	50.3	38.6	45.7	63.7	63.4	107.9	119.6	122.6	84.4	1012.3
4 1977	105.2	123.8	113.5	80.0	61.1	43.3	61.6	70.5	87.2	125.3	106.3	122.6	91.8	1101.4
5 1978	139.9	135.3	108.5	97.6	60.5	43.8	51.6	62.6	83.2	121.2	122.5	125.3	96.0	1152.0
6 1979	134.6	117.5	114.5	77.0	53.6	45.9	42.0	73.4	74.8	109.8	115.6	108.0	89.1	1069.6
7 1980	126.8	103.6	120.5	84.0	58.0	41.3	48.8	65.8	68.2	112.1	118.4	127.8	89.6	1075.1
8 1981	118.5	111.1	117.4	82.9	69.1	39.0	46.2	72.1	93.8	92.2	124.3	111.5	89.8	1078.2
9 1982	145.1	105.9	100.6	68.2	57.3	39.3	50.7	64.4	88.2	103.6	104.4	110.4	87.7	1053.0
10 1983	123.6	105.7	102.9	73.6	51.2	32.4	48.7	73.4	62.2	103.2	125.1	122.9	85.4	1024.8
11 1984	147.2	131.1	104.4	75.2	64.6	50.5	55.7	61.1	85.8	124.2	114.1	113.1	93.9	1126.9
12 1985	145.3	101.9	102.2	78.9	61.4	43.1	46.4	76.1	89.1	122.4	141.2	149.3	96.4	1157.2
13 1986	130.1	96.1	105.3	50.3	53.8	50.3	46.9	60.1	79.7	118.7	122.1	114.6	89.0	1068.0
14 1987	122.2	98.3	118.3	83.1	46.1	40.9	57.2	65.9	76.2	100.8	126.6	136.1	89.3	1071.6
15 1988	152.2	88.2	129.6	73.7	33.0	40.6	69.5	98.7	123.6	135.7	169.8	143.1	104.8	1257.6
16 1989	97.9	90.7	111.7	84.6	61.0	32.7	43.9	67.5	87.1	143.1	145.4	136.4	91.8	1101.9
17 1990	111.4	147.1	113.2	95.7	51.9	27.8	31.6	65.8	84.8	134.7	126.1	152.0	95.2	1142.2
18 1991	150.1	129.5	90.2	82.6	61.8	37.2	52.4	79.7	96.6	127.2	159.1	137.2	100.3	1203.7
19 1992	169.4	119.1	83.3	73.8	38.4	36.8	38.5	64.4	74.7	116.8	140.0	166.6	93.5	1121.8
20 1993	133.1	81.5	118.9	91.8	54.3	28.1	39.3	67.4	71.9	125.2	152.1	152.1	94.1	1129.3
Mean	124.3	104.8	103.4	80.7	64.0	37.7	46.9	66.3	79.0	113.4	125.5	126.3	88.5	1062.2

Monthly Mean Evapotranspiration (No. 6)
 St. No. 02351008 Apucarana
 1974 - 1993 (20 Years)



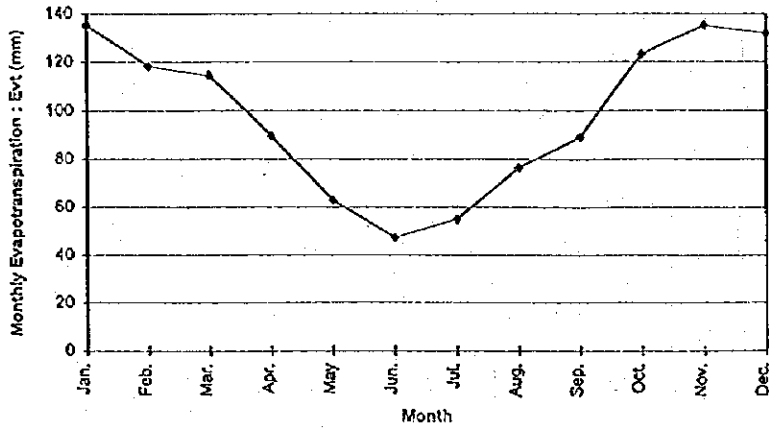
Annual Evapotranspiration (No. 6)
 St. No. 02350017 Apucarana
 1974 - 1993 (20 Years)



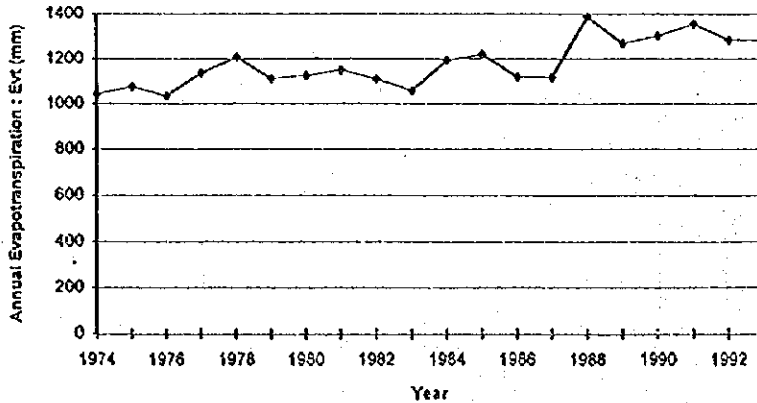
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02352011 (No.7)
 St. Name Ibiopora

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	111.1	124.3	71.7	84.5	62.4	39.6	56.1	64.1	89.5	105.2	137.5	98.3	87.0	1044.2
2 1975	134.5	102.1	117.7	87.9	58.6	43.9	44.5	80.6	82.5	103.6	102.0	117.2	89.6	1075.2
3 1976	116.4	103.2	111.7	79.1	51.7	39.6	46.1	65.8	66.7	110.2	127.3	118.0	85.3	1035.7
4 1977	110.0	133.1	120.1	81.3	65.3	43.9	62.6	74.1	88.9	127.3	107.1	124.0	94.8	1137.6
5 1978	144.6	141.5	114.1	99.7	61.5	45.1	52.7	63.7	81.4	129.2	132.3	140.0	100.5	1205.9
6 1979	136.4	125.0	124.9	82.3	55.9	47.3	43.4	76.2	76.9	116.1	122.3	105.8	92.7	1112.4
7 1980	130.7	109.3	123.3	89.1	60.7	43.5	49.4	68.9	69.7	120.3	127.9	133.1	93.8	1125.8
8 1981	121.0	124.1	122.6	89.0	73.7	41.5	46.0	74.1	107.3	105.9	133.1	112.8	95.9	1151.1
9 1982	142.3	117.7	113.1	91.8	60.3	41.8	51.8	67.8	92.2	109.7	110.1	112.3	92.6	1110.7
10 1983	129.7	108.9	106.7	76.3	52.4	34.8	50.2	75.9	63.7	104.9	131.7	123.7	88.2	1058.6
11 1984	152.9	142.8	109.0	77.3	67.9	52.4	58.1	63.7	89.2	131.1	127.7	120.4	99.4	1192.4
12 1985	146.6	113.5	106.2	84.0	63.0	43.3	49.1	80.7	92.9	133.8	145.2	160.7	101.6	1219.0
13 1986	143.5	99.4	108.0	96.3	55.8	52.1	47.7	62.1	83.4	125.6	128.0	117.9	93.3	1119.8
14 1987	128.5	98.6	124.4	85.5	48.9	40.7	57.5	69.3	79.4	108.6	133.7	143.0	93.2	1118.2
15 1988	157.1	102.6	137.8	90.2	55.4	61.9	73.0	111.5	132.7	143.1	172.1	149.4	115.6	1386.7
16 1989	110.8	104.7	122.6	99.5	79.4	55.2	64.8	84.8	101.6	149.4	151.4	143.6	105.6	1267.5
17 1990	122.4	152.8	123.9	109.0	71.6	51.0	54.2	83.4	99.6	142.2	134.9	157.0	108.5	1301.9
18 1991	155.4	137.8	104.3	97.8	80.0	59.0	72.0	95.3	109.7	135.8	183.0	144.4	112.9	1354.4
19 1992	171.8	128.9	98.4	90.3	60.1	58.7	60.1	82.2	91.0	126.9	146.8	169.4	107.0	1284.5
20 1993	140.9	96.8	129.7	105.6	73.6	51.3	60.9	84.8	88.7	134.1	169.8	147.0	106.8	1282.0
Mean	135.3	118.3	114.5	89.8	62.9	47.3	55.0	76.4	89.4	123.1	135.2	131.9	88.3	1179.2

Monthly Mean Evapotranspiration (No. 7)
 St. No. 02351011 Ibiopora
 1974 - 1993 (20 Years)



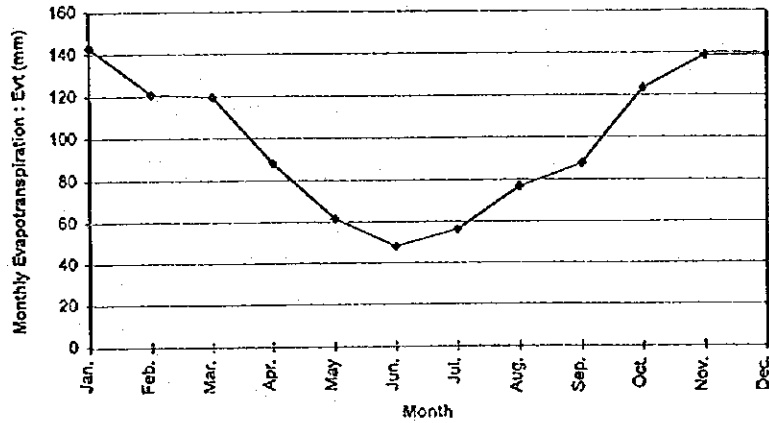
Annual Evapotranspiration (No. 7)
 St. No. 02351011 Ibiopora
 1974 - 1993 (20 Years)



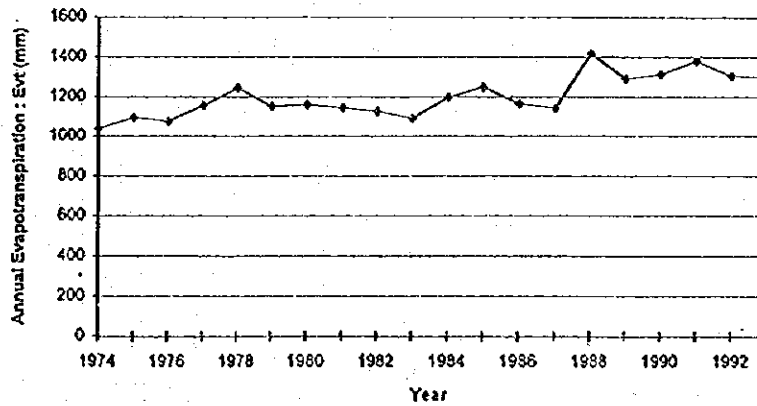
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02352017 (No 8)
 St. Name Paranaval

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	116.5	122.9	105.0	45.5	36.6	40.1	55.7	66.4	90.4	108.5	136.9	114.6	86.6
2 1975	141.9	107.3	114.0	83.3	57.4	43.4	46.9	78.2	79.4	106.3	116.4	120.6	91.2
3 1976	129.0	110.1	114.6	80.9	52.4	39.8	47.5	64.8	66.5	113.5	126.8	131.5	89.8
4 1977	113.5	131.6	121.8	83.9	65.8	45.7	63.1	70.8	65.2	131.4	112.9	130.0	96.5
5 1978	151.6	147.9	123.0	98.9	62.1	45.5	55.7	64.0	84.3	126.0	135.7	151.0	103.8
6 1979	143.8	131.3	121.7	79.3	57.1	50.1	45.4	81.1	79.1	117.9	133.8	112.4	96.1
7 1980	146.1	111.3	134.0	87.5	60.9	43.1	51.0	67.9	68.7	122.8	126.4	141.4	96.8
8 1981	133.9	115.4	127.5	90.7	75.4	40.7	47.7	74.5	90.6	58.0	134.3	117.7	95.5
9 1982	158.0	109.7	104.7	93.6	61.7	40.4	54.9	69.4	92.0	109.4	114.5	118.7	93.9
10 1983	135.1	110.4	113.4	79.4	55.0	32.7	43.8	74.9	63.0	105.5	135.7	138.6	91.1
11 1984	154.7	139.5	111.3	82.4	65.0	50.5	58.8	62.4	88.3	135.6	126.7	124.0	99.9
12 1985	159.5	111.0	109.3	86.7	63.8	44.6	49.8	74.0	92.0	132.3	153.2	174.2	104.1
13 1986	149.6	106.2	116.3	97.9	56.7	51.7	48.4	64.3	85.0	124.5	133.4	132.1	97.2
14 1987	136.4	105.4	128.7	86.2	47.5	42.3	59.6	67.5	76.6	108.7	142.1	143.4	95.4
15 1988	169.9	109.5	139.7	93.2	59.1	62.7	76.7	119.3	126.3	145.8	168.7	147.6	118.2
16 1989	110.8	115.1	125.5	100.8	78.2	55.4	72.1	86.5	98.0	147.6	153.3	147.7	107.6
17 1990	127.4	145.0	132.5	106.7	65.3	52.9	51.9	85.2	98.3	140.2	145.2	160.2	109.5
18 1991	155.8	143.9	113.8	102.5	77.3	59.9	74.4	99.3	110.6	132.1	161.4	148.5	115.0
19 1992	176.4	140.0	110.0	85.2	61.9	64.2	58.6	79.6	86.2	123.9	147.9	171.2	108.7
20 1993	148.5	103.3	124.7	100.7	72.8	52.4	60.2	86.2	92.2	135.8	167.6	152.6	108.1
Mean	142.9	120.9	119.6	88.3	61.6	47.9	56.3	76.9	87.7	123.3	138.6	138.9	100.2

Monthly Mean Evapotranspiration (No. 8)
 St. No. 02352017 Paranaval
 1974 - 1993 (20 Years)



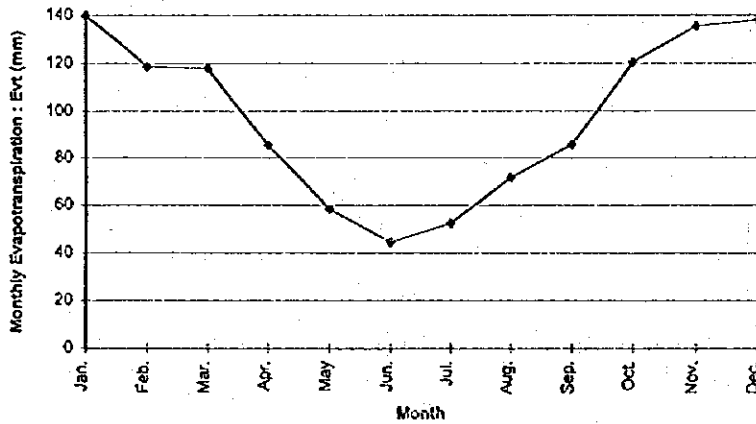
Annual Evapotranspiration (No. 8)
 St. No. 02352017 Paranaval
 1974 - 1993 (20 Years)



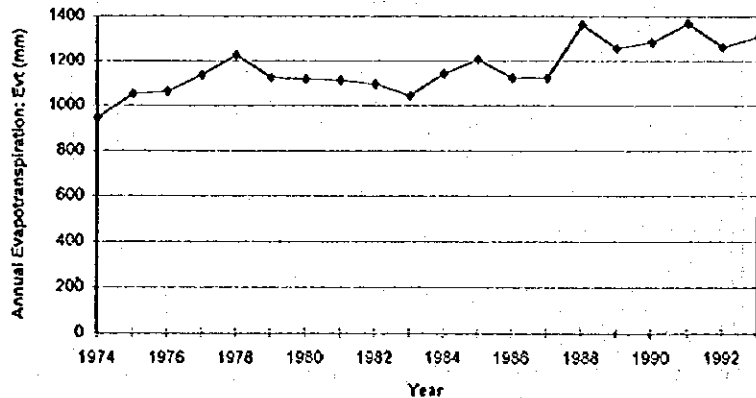
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02352019 (No.9)
 St. Name Cianorte

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	112.7	119.2	101.0	40.5	31.4	24.8	28.7	34.4	90.5	107.5	135.0	120.4	78.8	943.1
2 1975	140.6	106.1	112.2	78.9	51.7	41.6	44.2	72.6	73.1	99.6	112.2	120.8	87.7	1052.9
3 1976	122.6	113.7	112.4	78.9	48.8	37.9	46.4	63.8	62.5	114.7	131.0	131.0	88.6	1063.5
4 1977	110.2	129.2	116.0	85.2	63.7	43.9	60.9	67.4	87.0	130.6	111.6	132.1	94.8	1137.7
5 1978	156.6	141.9	122.6	97.0	61.1	43.1	52.6	63.9	83.9	124.6	133.2	146.0	102.2	1228.7
6 1979	150.1	128.1	120.1	76.1	51.1	47.7	43.0	75.1	75.3	115.7	128.9	113.1	93.7	1124.3
7 1980	140.9	105.4	130.2	88.2	56.4	39.9	46.0	63.3	66.6	119.1	122.8	142.1	93.2	1118.8
8 1981	131.3	111.6	126.1	86.4	70.7	38.2	46.4	71.3	89.3	97.8	128.5	115.4	92.7	1112.9
9 1982	159.2	102.0	110.1	90.8	59.6	37.8	51.7	66.4	87.8	105.5	102.3	122.6	91.3	1065.7
10 1983	134.1	111.3	108.4	71.9	50.1	30.9	45.3	72.6	60.4	98.9	130.4	131.2	87.1	1045.6
11 1984	147.3	135.1	106.6	78.2	62.5	45.7	37.2	59.0	88.5	126.0	115.5	119.5	95.3	1143.0
12 1985	160.2	104.6	107.7	82.6	60.3	42.2	46.4	70.7	88.5	129.4	147.3	156.4	100.5	1205.2
13 1986	144.3	102.2	109.8	89.9	53.9	50.3	47.6	61.9	84.7	121.3	131.8	127.5	93.7	1125.0
14 1987	134.1	106.9	128.0	86.1	44.2	39.1	56.2	62.9	78.6	107.2	137.4	142.8	93.6	1123.4
15 1988	152.2	111.8	137.6	85.4	54.1	58.0	70.9	108.0	122.2	141.6	168.1	148.4	113.5	1362.2
16 1989	102.8	106.8	127.4	97.8	76.1	51.1	67.5	81.5	95.4	148.4	156.9	146.3	104.8	1257.9
17 1990	121.9	147.0	129.1	104.1	63.9	50.5	50.0	82.0	96.6	136.5	144.3	158.6	107.0	1284.4
18 1991	159.4	145.6	122.6	103.0	75.3	58.1	70.3	91.6	106.1	127.4	159.4	149.0	114.0	1367.7
19 1992	171.5	132.9	103.2	85.2	58.1	56.7	52.5	75.2	90.7	123.7	144.5	170.4	105.4	1264.5
20 1993	142.1	110.9	131.0	104.7	73.4	51.3	62.0	86.4	87.8	134.4	168.3	156.1	109.0	1308.4
Mean	139.9	118.7	118.1	85.4	58.3	44.5	52.3	71.5	85.8	120.5	135.5	138.0	97.4	1168.3

Monthly Mean Evapotranspiration (No. 9)
 St. No. 02352019 Cianorte
 1974 - 1993 (20 Years)



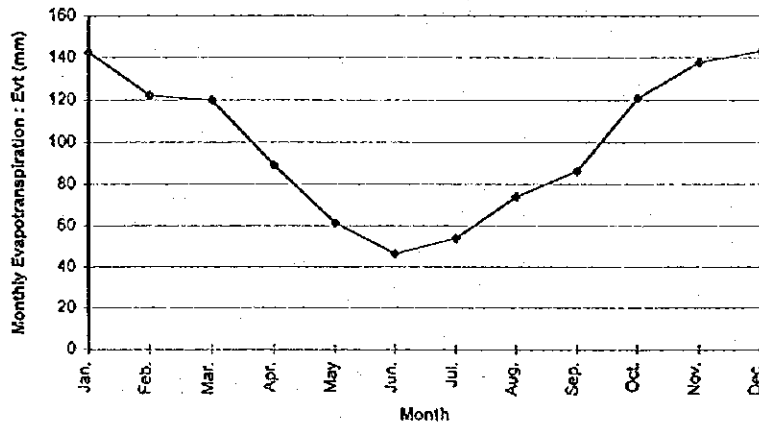
Annual Evapotranspiration (No. 9)
 St. No. 02352019 Cianorte
 1974 - 1993 (20 Years)



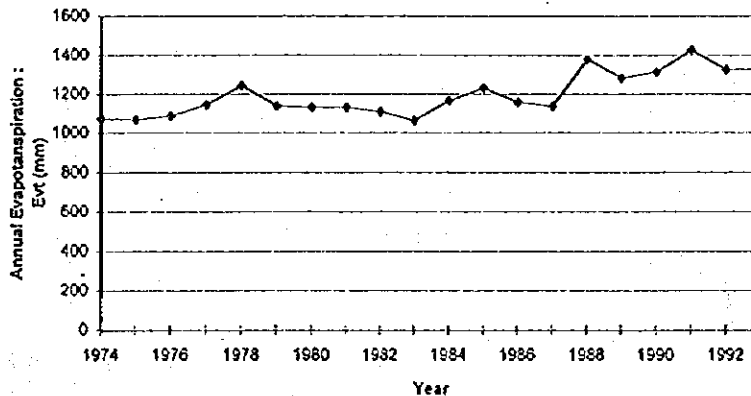
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02353008 (No.10)
 St. Name Umuarama

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	114.2	117.4	104.2	88.0	60.7	37.7	32.7	60.8	87.9	107.5	137.0	124.5	89.4	1072.8
2 1975	136.7	105.8	109.7	80.6	54.4	42.5	48.0	71.5	73.3	96.8	122.2	125.7	89.0	1068.1
3 1976	125.5	121.6	116.7	81.3	51.8	38.0	45.5	62.7	68.4	114.1	129.0	133.7	90.5	1088.3
4 1977	109.8	135.2	120.7	87.5	63.3	45.0	61.3	62.5	87.3	128.9	108.7	134.8	95.4	1144.8
5 1978	158.0	144.5	127.5	96.7	64.8	44.0	54.1	62.2	82.2	125.5	131.0	154.4	103.7	1244.9
6 1979	153.7	128.5	122.5	74.2	50.8	47.7	43.2	76.2	76.4	112.8	131.3	120.6	94.8	1137.9
7 1980	145.8	108.9	131.9	89.2	59.7	41.1	44.2	63.1	70.3	113.7	121.7	141.1	94.3	1131.7
8 1981	137.6	117.0	129.9	86.7	73.0	38.3	48.0	71.8	85.0	97.9	129.7	115.8	94.2	1130.7
9 1982	161.5	107.7	102.2	94.1	60.3	37.1	53.2	67.0	83.4	109.7	104.1	128.2	92.4	1108.7
10 1983	133.7	109.9	110.4	73.2	50.2	29.8	41.8	69.0	61.7	104.4	133.2	146.3	88.6	1063.5
11 1984	149.0	135.9	108.2	79.1	61.9	46.6	58.8	57.6	90.4	127.6	119.7	129.1	97.1	1164.9
12 1985	163.3	112.1	109.8	82.2	62.7	43.8	47.5	68.9	87.0	128.6	151.2	175.3	102.7	1232.2
13 1986	152.0	105.4	117.6	90.1	53.8	52.3	51.4	63.7	83.4	119.7	133.4	135.9	96.6	1158.7
14 1987	136.9	111.5	127.8	89.4	45.1	41.1	55.8	63.6	78.0	106.3	137.7	144.2	94.8	1137.4
15 1988	159.2	117.0	138.8	87.6	53.0	52.2	72.3	111.1	125.2	144.4	170.3	143.8	115.0	1379.9
16 1989	105.7	110.0	125.1	96.0	75.3	51.1	69.1	96.0	97.9	148.8	155.2	154.3	107.0	1284.4
17 1990	116.2	133.2	132.0	107.3	67.7	54.6	52.8	91.2	99.4	139.4	155.6	165.1	109.5	1314.3
18 1991	169.2	148.0	127.4	107.9	81.5	63.1	78.5	95.9	108.9	129.9	163.6	153.4	118.9	1427.2
19 1992	173.8	147.6	111.2	89.2	62.5	63.4	55.7	77.2	92.5	127.4	148.1	178.1	110.5	1326.5
20 1993	148.6	121.3	125.6	104.1	76.7	57.6	64.4	88.1	89.0	132.7	170.8	150.7	110.8	1329.5
Mean	142.6	122.0	120.0	89.2	61.4	46.3	53.9	74.0	86.3	120.8	137.7	143.0	99.8	1197.2

Monthly Mean Evapotranspiration (No. 10)
 St. No. 02353008 Umuarama
 1974 - 1993 (20 Years)



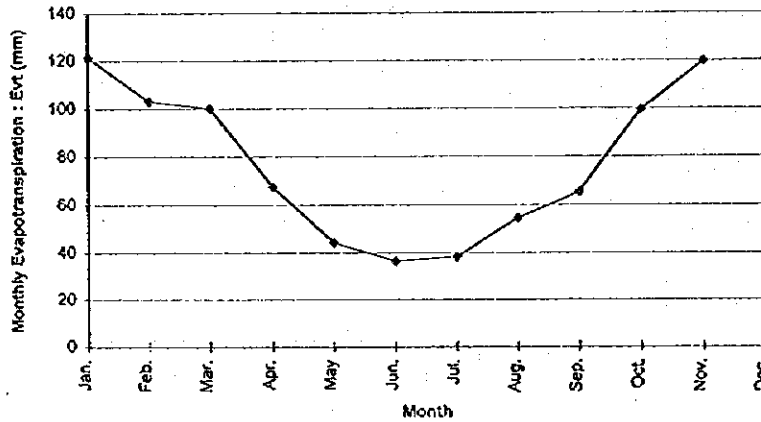
Annual Evapotranspiration (No. 10)
 St. No. 02353008 Umuarama
 1974 - 1993 (20 Years)



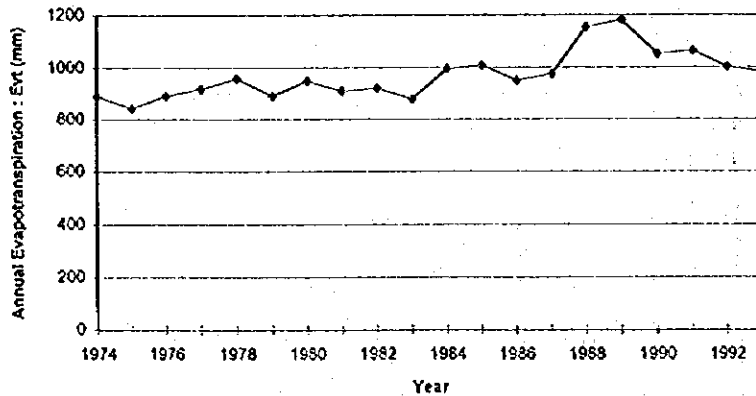
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02449013 (No.11)
 St. Name Cerro Azul

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	108.1	112.6	91.4	59.6	43.0	29.7	34.8	47.2	63.1	90.7	118.5	91.2	74.2	889.9
2 1975	115.8	95.5	90.8	62.1	37.9	27.7	30.3	45.7	61.8	81.2	92.2	101.4	70.2	842.4
3 1976	105.2	96.7	88.1	59.4	36.5	27.9	31.6	45.4	54.8	82.8	140.7	121.6	74.2	890.7
4 1977	104.8	119.5	89.6	60.2	45.0	31.6	40.7	52.1	67.8	99.5	91.2	116.5	76.5	918.4
5 1978	128.0	109.3	92.6	72.6	43.6	30.9	34.3	43.1	70.4	108.2	108.0	112.0	79.6	957.9
6 1979	118.8	103.1	95.8	61.9	39.3	27.2	30.9	52.1	61.8	93.9	99.6	106.4	74.3	891.0
7 1980	121.8	92.1	109.5	71.9	43.1	28.6	32.7	44.1	60.9	125.5	101.8	120.2	79.1	949.2
8 1981	109.0	107.9	96.9	63.2	47.0	29.9	32.4	50.0	68.6	78.6	117.3	104.0	75.8	909.8
9 1982	119.9	91.8	90.0	67.7	44.1	31.1	35.6	79.6	67.8	87.6	90.9	114.0	76.7	920.1
10 1983	126.6	94.3	82.4	57.7	40.5	26.1	34.8	46.9	51.1	80.1	119.3	119.3	73.3	879.1
11 1984	135.6	130.6	120.1	60.3	46.3	59.4	34.5	39.4	66.9	94.5	93.5	112.1	82.9	995.2
12 1985	122.0	94.9	93.0	64.3	42.2	29.0	34.5	55.8	69.6	140.3	125.5	137.0	84.0	1008.0
13 1986	131.4	91.0	96.0	69.5	43.0	65.1	33.1	48.4	61.2	100.7	99.9	112.0	79.3	951.3
14 1987	129.8	87.7	139.5	62.8	39.1	26.7	37.4	45.8	56.7	78.7	149.2	120.9	81.2	974.2
15 1988	144.0	97.5	113.9	65.5	43.6	54.9	45.9	65.2	78.5	104.5	181.3	160.1	96.2	1154.9
16 1989	112.8	99.9	105.1	81.4	53.4	63.9	81.6	59.6	73.6	160.1	168.5	123.8	98.5	1181.4
17 1990	102.9	127.5	143.7	80.8	50.5	38.4	38.5	53.8	70.4	98.3	114.7	134.7	87.7	1052.1
18 1991	134.3	117.1	81.9	70.7	51.4	33.4	41.0	108.0	74.6	96.5	126.4	128.5	88.7	1063.9
19 1992	144.0	106.7	87.3	72.7	44.3	38.2	38.1	50.3	69.3	98.7	114.0	137.6	83.4	1001.1
20 1993	115.4	87.6	98.8	80.6	50.5	33.7	42.8	53.6	58.6	90.6	141.2	130.9	82.0	984.2
Mean	121.5	103.2	100.2	67.5	44.2	36.6	38.3	54.5	65.4	99.6	119.7	120.2	80.9	970.7

Monthly Mean Evapotranspiration (No. 11)
 St. No. 02449013 Cerro Azul
 1974 - 1993 (20 Years)



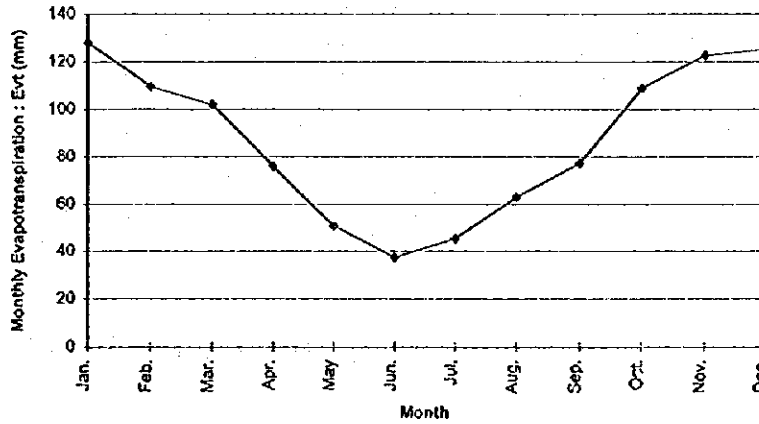
Annual Evapotranspiration (No. 11)
 St. No. 02449013 Cerro Azul
 1974 - 1993 (20 Years)



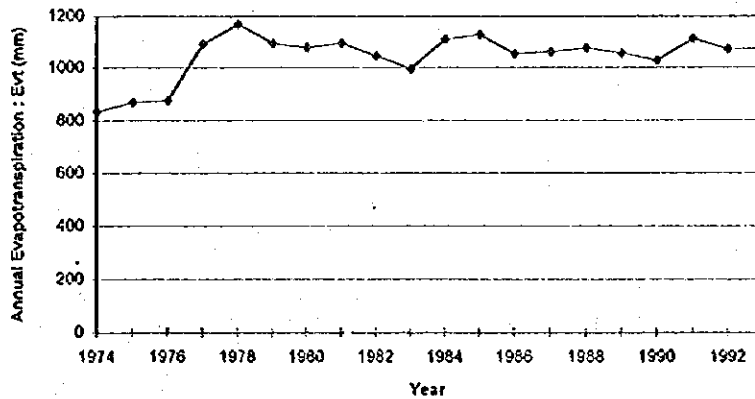
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02450011 (No.12)
 St. Name Telemaco

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	95.3	109.2	53.2	66.9	43.3	19.0	36.7	45.1	72.2	83.9	123.3	81.6	69.6	834.7
2 1975	120.1	85.7	102.2	70.5	39.3	23.6	24.2	62.8	64.8	87.3	85.5	101.7	72.3	867.7
3 1976	100.9	86.9	90.4	58.6	32.1	20.6	27.2	45.9	48.9	109.2	130.4	126.6	73.0	875.5
4 1977	115.9	124.6	104.9	75.4	56.9	40.5	57.0	72.4	84.0	122.4	109.0	129.0	91.0	1092.1
5 1978	141.9	130.7	108.4	97.0	56.0	44.5	49.4	60.9	81.0	129.4	130.7	140.0	97.5	1169.6
6 1979	148.4	122.9	113.9	76.0	49.0	42.3	44.3	66.4	76.1	115.1	123.7	115.7	91.2	1094.0
7 1980	134.7	109.3	116.3	78.4	54.3	42.5	43.2	62.2	73.3	110.0	123.7	126.0	89.9	1078.8
8 1981	123.1	115.6	111.4	83.1	60.5	40.1	53.0	71.3	96.1	98.5	128.0	114.9	91.3	1095.5
9 1982	141.6	108.2	103.2	80.6	56.1	39.0	46.2	60.4	90.8	99.1	55.8	123.5	87.0	1044.6
10 1983	127.5	102.0	96.5	64.6	48.4	33.2	46.8	68.7	62.6	98.5	113.2	134.0	83.0	995.7
11 1984	146.3	144.2	103.0	73.1	57.4	43.5	51.1	60.1	61.7	118.3	115.7	116.2	92.5	1110.5
12 1985	145.5	103.5	97.8	72.7	53.7	39.6	46.6	70.9	78.3	118.7	143.0	152.7	94.1	1129.1
13 1986	142.4	94.2	104.0	83.9	49.6	43.3	43.8	59.9	81.5	120.3	119.0	112.1	87.8	1053.7
14 1987	128.1	123.4	114.6	71.9	46.9	38.4	54.5	62.2	75.1	98.2	119.5	129.0	88.5	1061.6
15 1988	132.7	85.7	111.7	69.9	42.6	37.0	50.4	75.1	92.5	117.0	144.5	117.0	89.7	1076.1
16 1989	99.4	96.9	111.4	81.9	55.0	37.3	46.9	63.3	81.7	117.0	130.9	134.2	88.0	1055.9
17 1990	94.8	116.5	104.8	81.1	54.5	38.3	38.8	63.1	79.3	110.5	111.1	135.6	85.7	1028.4
18 1991	141.0	124.4	98.5	76.0	56.3	42.6	43.5	65.0	82.6	107.7	136.2	134.1	92.8	1113.1
19 1992	156.9	118.9	89.4	72.6	48.6	43.4	42.3	59.2	76.5	107.1	118.4	139.2	89.4	1072.4
20 1993	124.6	89.4	105.3	85.2	54.0	39.0	47.7	64.5	68.5	108.9	145.7	141.0	89.5	1073.8
Mean	128.1	109.6	102.0	76.0	50.7	37.4	45.2	63.0	77.3	109.1	122.6	125.2	87.2	1045.1

Monthly Mean Evapotranspiration (No. 12)
 St. No. 02450011 Telemaco
 1974 - 1993 (20 Years)



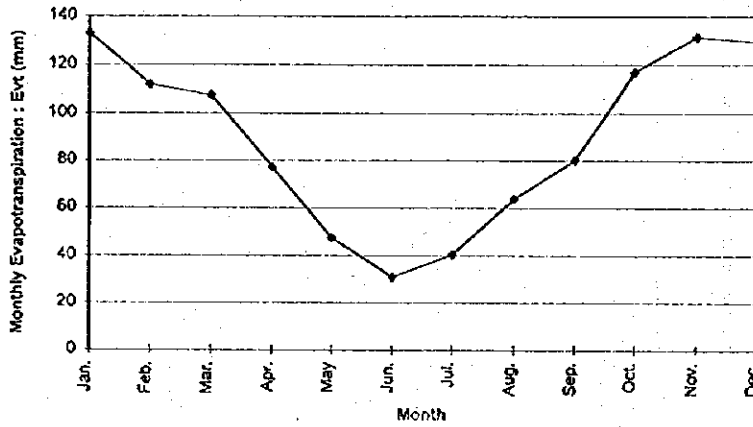
Annual Evapotranspiration (No. 12)
 St. No. 02450011 Telemaco
 1974 - 1993 (20 Years)



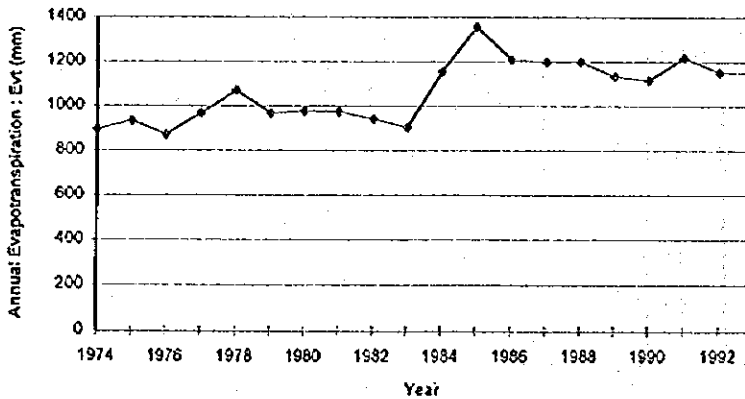
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02451051 (No.13)
 St. Name Candido Abreu

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	103.9	119.9	56.1	71.6	44.8	17.2	37.2	46.8	77.6	96.7	135.9	88.4	74.7	896.1
2 1975	132.2	93.0	111.9	75.8	40.2	22.4	23.1	66.9	69.2	94.8	92.8	111.3	77.6	933.7
3 1976	110.3	94.4	98.4	62.2	32.1	18.9	26.5	47.7	43.9	100.8	117.5	114.1	72.6	871.7
4 1977	100.8	123.2	106.2	64.0	45.8	23.0	42.6	55.9	70.1	120.5	98.3	118.0	80.7	968.3
5 1978	139.2	136.3	106.3	85.2	42.9	23.8	32.6	48.0	70.0	124.5	128.3	136.1	89.3	1071.1
6 1979	135.1	120.5	113.2	67.4	36.3	27.7	23.3	60.0	61.5	107.0	116.4	100.0	80.7	968.3
7 1980	124.2	99.3	115.4	74.6	42.0	23.4	32.0	50.2	55.9	112.8	119.8	126.9	81.4	976.6
8 1981	113.4	114.5	114.9	74.6	55.1	20.0	26.3	57.8	79.8	83.8	127.9	106.0	81.2	974.0
9 1982	140.4	104.0	92.8	77.1	41.1	21.8	31.7	48.7	79.3	99.4	98.8	107.2	78.5	942.1
10 1983	123.2	100.0	95.7	81.6	34.1	13.5	30.6	60.3	48.0	95.6	124.4	118.2	75.4	905.0
11 1984	154.3	138.4	100.6	62.6	49.1	31.3	37.4	46.9	107.7	154.7	142.7	128.4	96.2	1154.0
12 1985	166.6	112.3	109.0	85.2	58.6	38.1	55.1	95.0	114.1	156.6	176.1	188.8	113.1	1356.6
13 1986	154.9	102.5	110.4	101.4	49.5	45.5	50.5	65.8	101.5	150.0	158.0	119.7	100.8	1209.8
14 1987	139.6	103.9	136.9	87.6	43.8	31.5	57.2	82.8	92.0	121.6	147.6	154.6	99.9	1199.1
15 1988	153.3	93.1	131.1	74.8	37.2	42.7	56.7	87.7	108.0	132.1	155.5	128.1	100.0	1200.2
16 1989	108.6	95.8	117.8	88.7	63.3	41.7	51.2	71.0	85.6	128.1	139.3	144.3	94.6	1135.4
17 1990	103.4	129.8	115.5	78.6	58.2	43.3	42.2	70.4	86.3	117.8	120.8	151.1	93.1	1117.4
18 1991	154.9	136.6	108.2	84.2	62.2	46.2	55.7	74.0	92.1	115.3	144.3	144.6	101.5	1218.2
19 1992	165.7	123.1	97.3	78.1	52.3	45.3	46.4	65.2	82.0	112.2	132.3	154.0	96.2	1163.8
20 1993	133.4	98.3	113.2	90.0	60.7	41.9	48.7	74.1	73.3	117.7	151.9	147.2	95.9	1160.3
Mean	132.9	111.9	107.5	77.3	47.5	31.0	40.3	63.7	80.1	117.1	131.4	129.3	89.2	1070.1

Monthly Mean Evapotranspiration (No. 13)
 St. No. 02451051 Candido Abreu
 1974 - 1993 (20 Years)



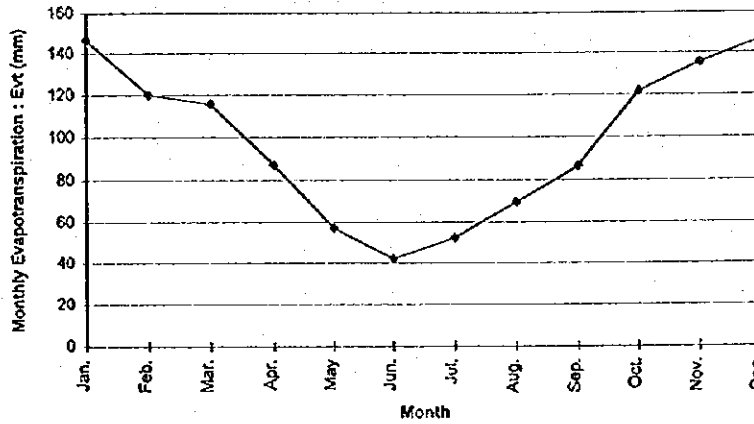
Annual Evapotranspiration (No. 13)
 St. No. 02451051 Candido Abreu
 1974 - 1993 (20 Years)



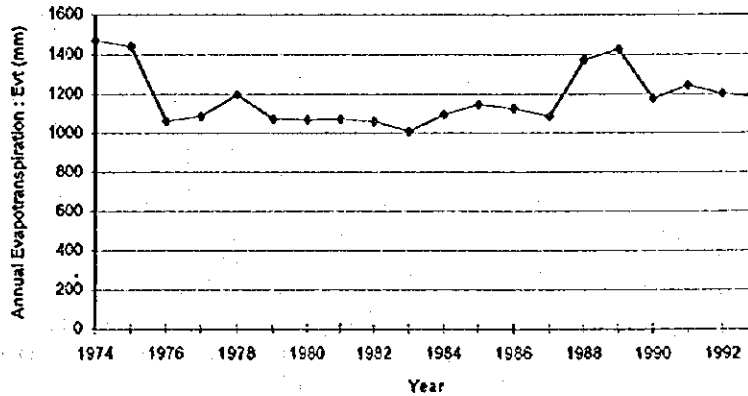
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02452050 (No.14)
 St. Name Nova Cantu

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	164.9	163.3	151.2	112.5	76.5	50.7	63.2	79.0	109.4	142.0	180.4	179.4	122.7	1472.4
2 1975	191.2	150.5	147.0	107.3	70.6	57.2	57.3	87.4	101.1	129.5	168.9	174.3	120.2	1442.3
3 1976	172.6	113.0	107.9	75.5	47.1	23.9	43.1	61.0	65.3	109.9	117.4	126.0	88.6	1062.7
4 1977	108.8	128.0	104.8	82.0	58.0	42.0	57.4	61.0	84.4	120.8	108.5	131.5	90.6	1087.1
5 1978	149.0	131.4	116.7	122.3	56.6	40.0	44.8	58.6	82.3	120.3	124.7	150.9	99.8	1197.5
6 1979	152.8	123.1	112.9	69.1	46.1	40.5	41.8	68.1	75.8	108.7	120.6	114.4	89.5	1073.6
7 1980	135.0	111.4	117.5	85.2	52.0	37.3	45.2	62.7	68.1	111.0	118.1	126.2	89.1	1069.6
8 1981	131.8	107.5	116.3	78.9	65.2	35.8	43.8	67.0	87.8	99.8	123.1	116.4	89.4	1072.2
9 1982	154.6	103.5	110.8	84.0	56.2	35.9	47.5	65.2	82.1	100.7	96.3	124.1	88.4	1060.6
10 1983	133.3	107.1	104.6	68.0	50.1	29.0	38.4	66.5	62.4	98.2	122.0	130.9	84.2	1010.5
11 1984	143.0	130.3	102.1	72.9	57.8	41.2	51.7	56.2	86.4	119.9	108.7	125.0	91.3	1095.0
12 1985	158.9	105.6	96.5	74.7	56.0	39.3	43.7	64.3	83.7	115.3	146.8	161.6	95.5	1146.3
13 1986	143.5	105.6	106.6	78.1	51.5	46.4	44.8	63.0	81.6	156.7	125.6	123.4	93.9	1126.9
14 1987	141.9	99.2	121.7	75.1	43.2	36.9	68.1	60.3	79.5	102.9	123.3	133.3	90.4	1085.3
15 1988	158.5	107.0	129.3	121.5	44.3	38.6	81.3	98.3	113.8	129.0	157.8	193.4	114.4	1372.6
16 1989	108.5	108.4	121.7	83.8	68.3	61.8	54.6	76.8	119.5	193.4	209.4	216.7	119.0	1427.8
17 1990	135.5	133.7	112.6	83.0	58.8	44.0	43.2	74.5	85.2	124.0	128.0	149.5	99.2	1177.9
18 1991	157.6	136.4	116.8	84.3	65.9	47.8	58.0	77.5	103.8	115.4	143.5	137.2	103.7	1244.1
19 1992	161.0	126.9	101.7	78.5	52.8	50.7	69.0	66.3	84.0	116.7	132.9	162.0	100.2	1202.2
20 1993	131.3	107.3	115.8	92.6	65.1	45.3	50.0	79.1	75.5	119.8	153.0	151.0	98.8	1185.7
Mean	145.7	119.9	115.7	87.0	57.1	42.2	52.3	69.6	86.6	121.6	135.4	146.4	98.4	1180.6

Monthly Mean Evapotranspiration (No. 14)
 St. No. 02452050 Nova Cantu
 1974 - 1993 (20 Years)



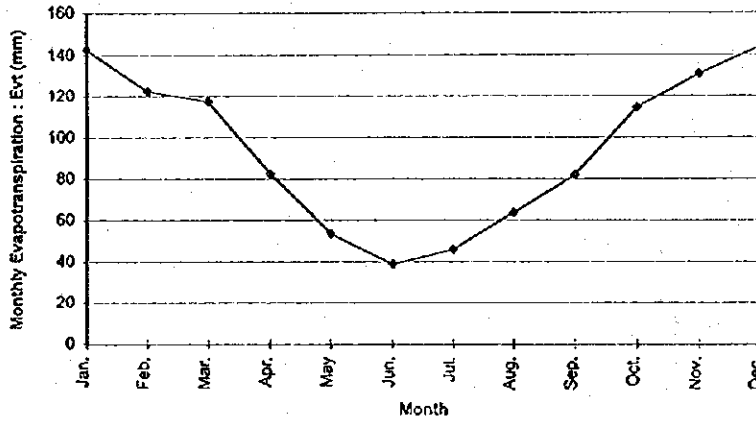
Annual Evapotranspiration (No. 14)
 St. No. 02452050 Nova Cantu
 1974 - 1993 (20 Years)



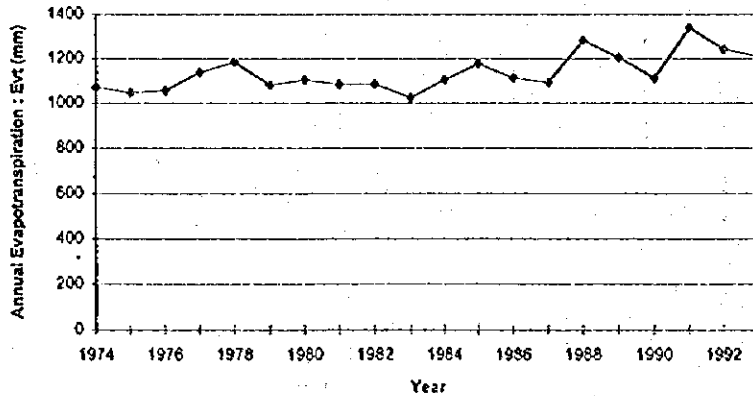
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02453003 (No.15)
 St. Name Palotina

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	121.5	120.3	111.1	81.5	59.9	34.1	43.7	55.8	79.1	104.0	133.4	132.6	89.2	1070.9
2 1975	141.7	110.6	107.9	77.4	49.3	39.1	39.2	62.2	72.7	94.4	124.6	128.7	87.3	1047.8
3 1976	127.5	120.2	114.2	78.1	48.5	33.6	40.2	55.9	63.3	113.0	126.1	138.5	88.1	1057.2
4 1977	116.3	136.6	116.3	87.7	57.7	42.2	57.4	59.3	88.9	123.8	114.7	137.2	94.8	1138.1
5 1978	162.4	138.1	124.7	88.9	55.2	37.7	42.5	49.8	80.5	118.3	128.7	155.8	99.6	1182.9
6 1979	154.1	128.4	111.0	70.7	44.1	35.6	39.4	66.7	75.1	111.2	130.0	117.6	90.2	1081.9
7 1980	145.4	116.9	127.2	87.3	54.9	36.4	39.4	59.8	68.2	108.6	118.1	142.2	92.0	1104.4
8 1981	137.3	112.4	122.9	84.2	65.4	35.0	40.5	63.0	81.5	96.3	125.7	120.4	90.4	1084.4
9 1982	164.3	113.2	106.3	88.1	56.2	33.3	46.0	62.4	77.9	108.2	97.2	134.9	90.5	1086.1
10 1983	130.7	108.1	108.8	71.1	47.5	28.3	35.4	60.5	61.3	101.9	125.1	146.9	85.5	1025.5
11 1984	139.8	137.6	109.4	74.4	36.3	38.9	49.0	53.4	85.7	126.0	118.9	135.7	92.1	1104.9
12 1985	163.6	119.3	108.3	77.9	58.1	38.2	40.3	56.1	80.0	118.9	151.6	163.7	98.0	1175.9
13 1986	148.7	110.5	116.4	81.4	50.4	43.4	43.2	60.0	78.7	115.3	128.7	136.8	92.8	1113.4
14 1987	146.5	107.7	120.9	79.1	42.5	35.4	47.4	55.5	77.8	104.1	134.3	142.8	91.2	1093.9
15 1988	156.9	112.9	134.3	89.3	52.1	29.4	57.5	85.5	111.3	138.0	171.5	143.3	106.8	1281.1
16 1989	111.3	117.5	121.9	91.2	49.6	42.6	51.0	72.2	86.8	143.3	156.6	151.2	100.3	1204.2
17 1990	99.0	134.9	123.9	74.8	59.4	43.1	44.9	70.5	93.9	132.0	74.8	161.7	92.7	1112.8
18 1991	174.7	139.8	128.5	96.8	67.8	49.0	61.3	81.1	101.9	128.5	163.8	146.0	111.6	1339.3
19 1992	168.3	140.0	105.8	78.7	55.0	52.1	48.1	67.0	89.3	122.3	145.4	170.7	103.6	1242.7
20 1993	144.1	123.6	126.0	96.3	67.0	47.9	51.6	74.8	86.0	83.0	150.6	159.5	100.9	1210.2
Mean	142.7	122.3	117.3	82.6	53.5	38.8	45.9	63.6	82.0	114.5	130.9	143.8	94.8	1137.9

Monthly Mean Evapotranspiration (No. 15)
 St. No. 02453003 Palotina
 1974 - 1993 (20 Years)



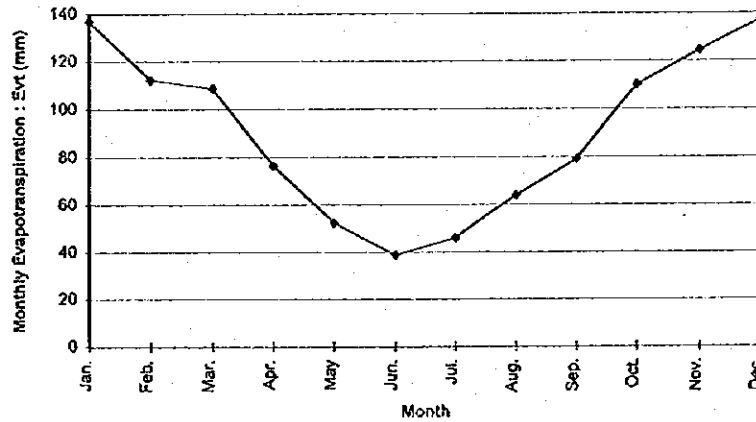
Annual Evapotranspiration (No. 15)
 St. No. 02453003 Palotina
 1974 - 1993 (20 Years)



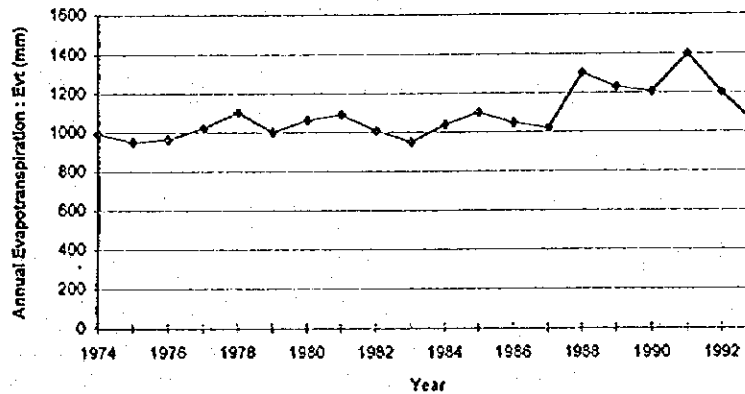
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02453023 (No.16)
 St. Name Cascavel

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	111.2	108.4	98.3	73.4	51.5	31.2	43.1	52.8	77.8	96.8	124.6	123.4	82.7	992.5
2 1975	116.3	102.5	97.3	68.9	48.4	35.0	37.6	60.6	65.4	89.8	115.9	116.7	79.4	952.4
3 1976	109.8	104.9	106.4	71.5	44.2	30.3	37.1	54.8	60.8	101.3	114.3	130.5	80.5	965.9
4 1977	103.9	124.7	101.0	73.7	52.5	38.0	48.8	54.6	80.1	111.1	103.4	130.3	85.2	1022.0
5 1978	148.0	129.3	110.3	84.0	51.4	36.0	42.9	51.9	76.5	110.7	118.6	142.6	91.9	1102.3
6 1979	142.4	112.5	103.2	63.4	42.2	50.5	37.2	60.4	69.6	98.0	116.4	106.9	83.5	1002.5
7 1980	141.2	105.6	111.4	80.7	48.9	33.1	37.1	56.8	65.7	97.2	113.5	172.0	88.6	1063.2
8 1981	166.4	95.3	111.8	71.3	59.2	32.0	56.1	59.9	77.0	93.4	153.2	111.7	90.9	1090.3
9 1982	155.1	96.3	104.9	83.6	49.6	31.2	42.4	57.8	75.6	100.3	90.2	121.7	84.0	1008.5
10 1983	127.6	98.9	102.6	61.9	42.1	25.5	32.2	57.7	57.2	92.0	116.0	137.4	79.3	951.5
11 1984	132.8	130.1	97.5	67.2	51.3	35.7	44.7	50.2	83.5	114.6	105.0	126.9	86.6	1039.4
12 1985	154.8	104.4	99.9	67.8	53.7	36.0	38.2	56.6	75.0	110.8	144.3	157.5	91.6	1098.9
13 1986	144.5	106.2	104.3	73.2	45.3	40.9	41.6	58.4	75.8	109.3	120.0	128.6	87.3	1048.2
14 1987	139.3	99.6	118.9	67.9	38.1	33.2	43.1	52.7	72.7	98.6	125.6	131.7	85.1	1021.4
15 1988	153.6	110.3	132.6	78.4	47.4	43.5	64.0	93.3	117.5	135.5	169.5	151.4	108.5	1301.9
16 1989	105.0	103.9	118.0	88.0	66.5	42.8	60.2	92.2	92.5	151.4	156.1	154.3	102.6	1230.9
17 1990	122.8	134.3	123.9	95.2	68.3	49.1	48.3	83.9	94.7	133.5	92.2	161.9	100.7	1208.1
18 1991	172.0	141.9	126.2	95.0	76.6	59.4	77.0	91.5	111.7	131.9	168.4	148.7	116.7	1400.3
19 1992	167.1	127.3	99.7	83.8	60.7	60.5	52.2	72.3	90.1	121.8	115.2	151.0	100.1	1201.6
20 1993	125.0	107.6	106.1	81.6	52.0	34.2	37.1	57.2	62.6	104.6	126.7	139.5	86.2	1034.0
Mean	136.9	112.3	108.7	76.5	52.4	38.9	46.0	64.0	79.1	110.1	124.4	137.2	90.6	1066.8

Monthly Mean Evapotranspiration (No. 16)
 St. No. 02453023 Cascavel
 1974 - 1993 (20 Years)



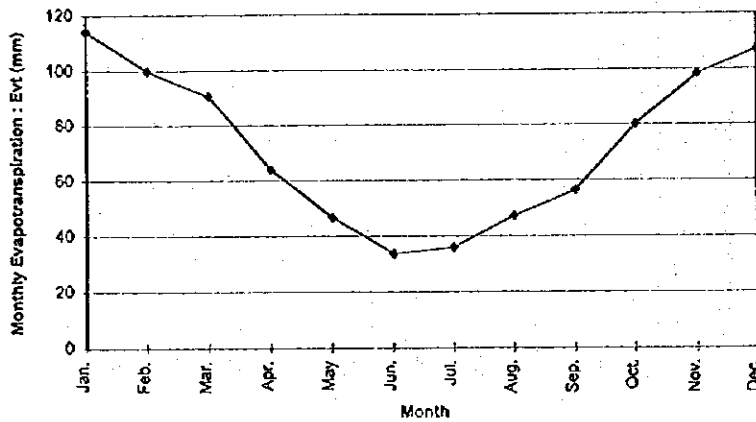
Annual Evapotranspiration (No. 16)
 St. No. 02453023 Cascavel
 1974 - 1993 (20 Years)



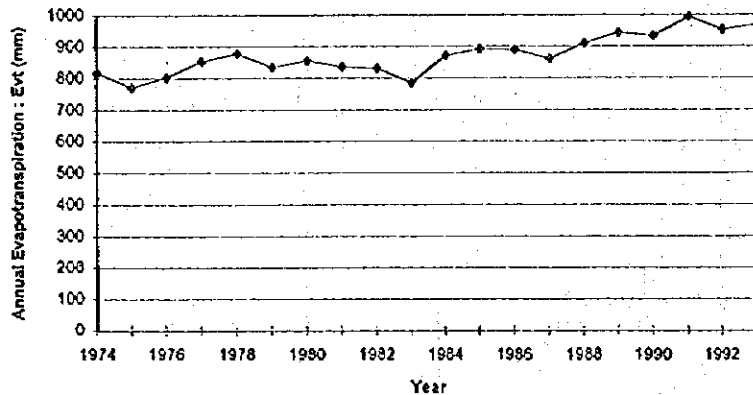
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02548038 (No.17)
 St. Name Morretes

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	101.3	102.4	85.3	55.1	46.1	28.6	35.9	49.2	50.8	78.2	97.1	87.4	68.1	817.3
2 1975	99.8	90.9	84.2	51.7	40.5	31.1	31.8	41.9	48.8	73.8	88.6	89.1	64.3	772.1
3 1976	102.9	92.8	89.1	48.0	37.4	28.6	29.9	37.3	49.8	73.8	100.0	113.7	66.9	803.2
4 1977	103.7	123.5	83.6	53.1	43.0	30.9	40.1	45.4	57.6	82.7	74.3	115.1	71.1	852.8
5 1978	115.7	100.8	50.9	69.0	49.0	32.3	36.6	45.9	60.5	87.4	88.7	100.7	73.1	877.5
6 1979	97.3	103.7	85.8	60.5	43.4	28.8	34.5	46.8	57.1	81.3	94.3	100.8	69.5	834.2
7 1980	116.6	87.1	113.3	71.2	49.8	33.8	32.7	41.5	57.7	70.2	84.0	96.4	71.2	854.3
8 1981	92.4	104.1	86.5	62.9	52.8	32.0	35.5	48.0	65.5	68.0	87.1	100.5	69.6	835.2
9 1982	106.8	94.2	76.0	62.0	45.9	33.5	37.5	46.7	59.0	81.4	80.1	108.0	69.3	831.0
10 1983	112.3	82.1	73.6	51.3	36.6	27.9	30.9	44.3	45.1	69.0	109.5	103.4	65.5	785.8
11 1984	131.8	128.1	83.8	60.1	48.5	35.7	36.5	38.3	62.7	79.7	81.4	84.2	72.6	870.8
12 1985	107.4	88.0	88.3	61.8	51.7	35.4	35.7	49.7	52.6	89.6	105.9	125.0	74.3	891.0
13 1986	150.9	91.0	90.2	68.2	47.8	37.4	35.9	52.1	55.7	88.3	91.0	100.5	74.1	889.0
14 1987	122.0	91.7	107.0	63.0	34.7	31.0	36.1	46.8	52.0	70.0	97.5	109.1	71.7	860.8
15 1988	145.4	82.9	111.5	60.3	42.7	44.5	36.7	59.3	50.4	74.6	116.4	91.8	75.9	910.3
16 1989	109.5	98.7	95.8	75.5	52.0	36.6	40.9	54.2	61.6	91.8	122.0	104.6	78.6	943.1
17 1990	104.1	122.9	97.3	76.5	54.4	37.7	31.3	50.1	62.4	79.1	92.2	125.1	77.7	933.0
18 1991	118.7	111.9	84.8	73.9	58.0	36.4	44.7	53.4	66.8	90.5	116.8	137.2	82.8	993.0
19 1992	140.6	103.4	90.8	76.0	45.8	39.2	33.9	43.6	57.1	92.1	103.1	127.9	79.5	953.4
20 1993	121.8	95.7	96.2	78.9	51.3	35.8	43.1	54.4	53.7	80.7	137.7	117.4	80.6	866.6
Mean	114.1	99.8	90.7	63.9	46.6	33.8	36.0	47.1	56.3	80.1	98.4	106.9	72.8	873.7

Monthly Mean Evapotranspiration (No. 17)
 St. No. 02548038 Morretes
 1974 - 1993 (20 Years)



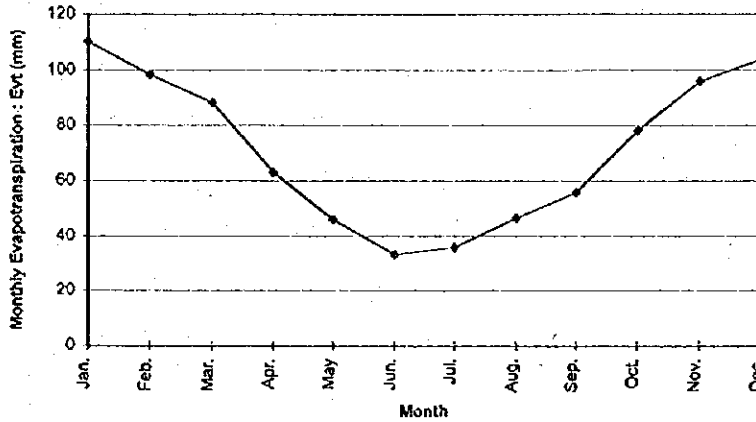
Annual Evapotranspiration (No. 17)
 St. No. 02548038
 1974 - 1993 (20 Years)



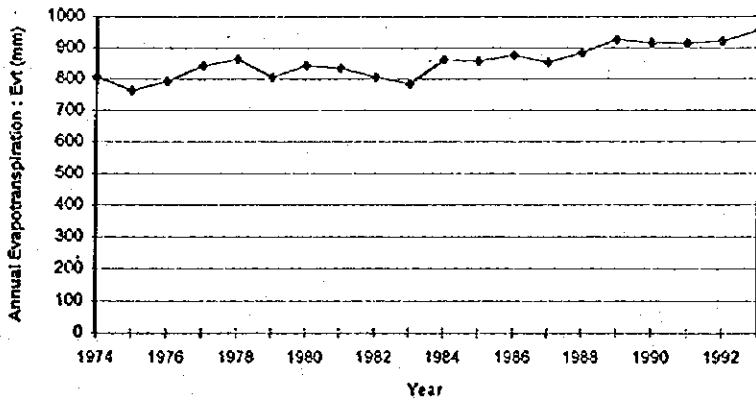
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02548039 (No.18)
 St. Name Guaraquecaba

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	99.0	100.0	83.6	54.8	46.1	29.4	36.4	49.1	50.6	76.8	94.9	85.7	67.2	806.4
2 1975	97.5	89.0	82.6	51.5	40.8	31.8	32.5	42.1	49.7	72.6	86.8	87.2	63.6	763.1
3 1976	100.5	90.8	87.3	47.9	37.9	29.4	30.6	37.8	49.6	72.6	97.7	110.8	66.1	792.9
4 1977	101.2	120.2	82.0	52.9	43.2	31.6	40.4	45.4	57.1	81.1	77.3	110.0	70.2	842.5
5 1978	114.7	102.8	88.2	66.5	45.6	31.6	36.0	46.0	61.2	85.4	87.8	93.4	72.0	864.1
6 1979	95.1	99.2	82.5	60.5	41.1	27.5	33.4	45.3	57.0	79.0	90.7	84.6	67.2	806.9
7 1980	111.8	86.3	107.1	66.8	49.4	32.8	32.8	41.5	58.4	69.4	84.6	102.6	70.3	843.5
8 1981	95.2	105.7	84.0	62.6	51.3	31.6	35.2	47.9	64.7	66.2	88.4	102.2	69.6	834.9
9 1982	100.1	89.8	73.4	58.9	44.4	35.3	38.2	47.8	58.2	78.5	77.7	103.6	67.1	805.7
10 1983	106.5	86.2	70.6	50.7	37.1	28.0	31.4	44.8	45.3	68.5	107.5	107.7	65.4	784.3
11 1984	135.6	124.6	84.2	61.8	52.0	35.3	35.9	37.9	63.6	75.6	76.3	80.0	71.9	862.9
12 1985	93.7	85.0	86.9	62.0	50.5	34.3	35.7	47.8	53.4	87.2	103.3	119.0	71.6	858.7
13 1986	132.1	91.4	84.2	68.5	46.4	35.9	35.3	49.6	56.3	86.4	88.8	102.2	73.1	877.0
14 1987	116.8	92.1	100.6	66.1	38.8	30.4	38.3	46.7	51.4	70.4	97.1	108.7	71.3	855.4
15 1988	141.2	81.3	108.7	59.7	42.9	33.9	37.1	53.0	50.2	73.4	113.4	89.9	73.7	884.7
16 1989	106.8	96.5	93.7	74.3	51.8	37.0	41.2	53.9	61.0	89.9	118.8	102.1	77.2	926.7
17 1990	101.6	119.6	95.1	75.2	54.0	38.1	32.0	50.0	61.7	77.7	90.2	121.7	76.4	917.1
18 1991	115.6	109.1	83.1	72.7	51.3	32.4	34.7	47.0	58.3	81.7	106.2	119.2	76.3	915.4
19 1992	118.0	104.9	92.8	72.5	46.2	41.2	35.6	43.6	56.7	90.1	99.0	120.5	76.8	921.3
20 1993	123.4	93.6	94.1	77.5	48.3	36.9	43.0	53.9	53.4	81.1	133.7	115.2	79.5	954.1
Mean	110.3	98.4	88.2	63.2	46.0	33.2	35.9	46.5	55.8	78.2	96.0	104.1	71.3	855.8

Monthly Mean Evapotranspiration (No. 18)
 St. No. 02548039 Guaraquecaba
 1974 - 1993 (20 Years)



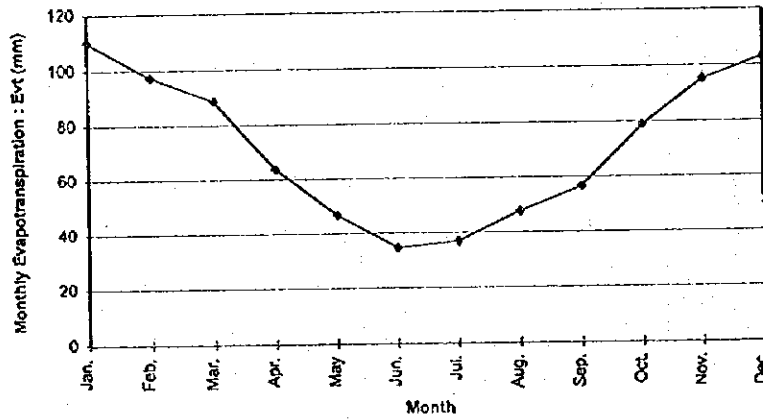
Annual Evapotranspiration (No. 18)
 St. No. 02548039 Guaraquecaba
 1974 - 1993 (20 Years)



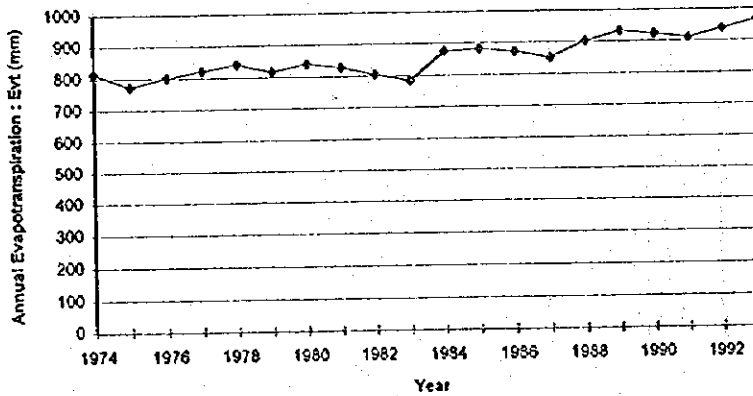
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02548070 (No.19)
 St. Name Antonina

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	58.9	99.9	83.9	55.9	47.4	31.2	37.9	50.3	51.8	77.3	94.9	85.9	67.9	815.3
2 1975	97.5	89.2	83.0	52.7	42.2	33.4	34.1	43.5	49.9	73.3	87.0	87.5	64.4	773.2
3 1976	100.4	91.0	87.5	49.2	39.4	31.1	32.3	39.3	50.8	73.3	97.7	110.4	66.9	802.2
4 1977	101.1	119.6	82.4	54.0	44.5	33.3	41.8	46.8	58.1	81.5	57.5	101.8	68.5	822.3
5 1978	114.4	100.5	85.6	64.5	44.2	31.7	36.5	46.6	57.6	83.6	89.0	87.7	70.1	840.8
6 1979	95.1	101.2	86.2	61.0	42.5	29.3	33.4	45.8	57.0	80.9	89.9	96.3	68.2	818.5
7 1980	111.4	83.4	106.2	68.7	49.1	33.5	33.0	41.4	57.0	70.7	83.0	103.1	70.0	840.4
8 1981	93.7	104.2	83.7	61.9	50.7	31.9	35.5	48.2	64.0	67.2	83.7	98.5	69.0	828.0
9 1982	99.9	89.8	87.8	62.2	44.8	34.3	37.6	47.1	58.9	79.1	78.0	105.4	67.1	805.0
10 1983	108.7	85.2	73.8	51.3	35.2	27.8	31.1	44.5	45.1	69.3	110.5	100.9	65.4	784.3
11 1984	132.1	123.2	84.2	60.2	51.7	35.9	35.6	38.4	65.3	81.4	78.2	87.8	72.9	874.9
12 1985	97.3	87.3	87.3	62.7	51.3	34.6	36.4	49.3	56.2	91.8	106.4	120.9	73.5	881.5
13 1986	126.5	88.1	86.0	67.5	48.1	37.0	35.2	53.0	57.9	86.3	83.7	97.8	72.7	872.1
14 1987	118.2	89.9	104.7	63.7	39.0	30.9	37.2	45.8	52.2	68.1	95.2	106.4	71.0	852.2
15 1988	140.0	81.7	108.4	60.6	44.3	45.9	38.6	54.1	51.4	74.0	113.0	90.0	75.2	902.0
16 1989	106.5	96.5	93.7	74.8	52.9	38.6	42.6	55.0	61.9	90.0	118.2	102.0	77.7	932.6
17 1990	101.5	119.0	95.1	75.8	55.1	39.6	33.7	51.2	62.6	78.2	90.4	121.1	76.9	923.2
18 1991	115.1	108.7	83.5	73.4	51.1	31.4	38.2	46.6	61.3	81.1	104.1	116.1	75.9	910.5
19 1992	122.8	100.8	92.8	75.3	47.2	41.0	38.5	45.5	57.6	92.2	101.7	122.8	78.2	938.0
20 1993	118.5	86.6	98.0	78.0	53.0	41.0	47.9	59.8	54.8	79.7	132.0	116.6	80.5	965.7
Mean	110.0	97.3	88.7	63.7	46.7	34.7	36.9	47.6	56.6	78.9	95.2	102.9	71.6	859.1

Monthly Mean Evapotranspiration (No. 19)
 St. No. 02548070 Antonina
 1974 - 1993 (20 Years)



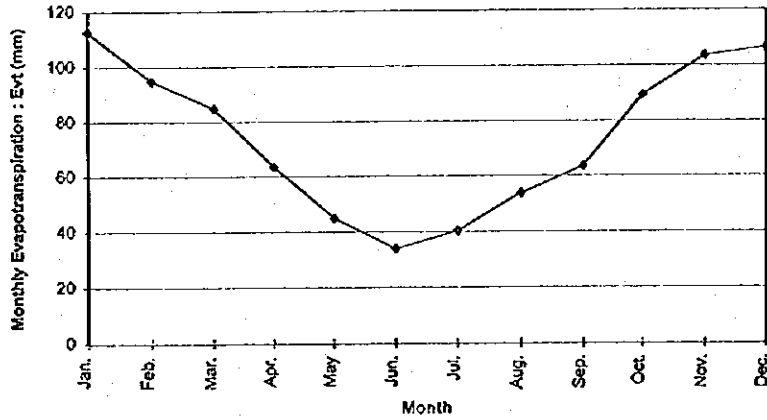
Annual Evapotranspiration (No. 19)
 St. No. 02548070 Antonina
 1974 - 1993 (20 Years)



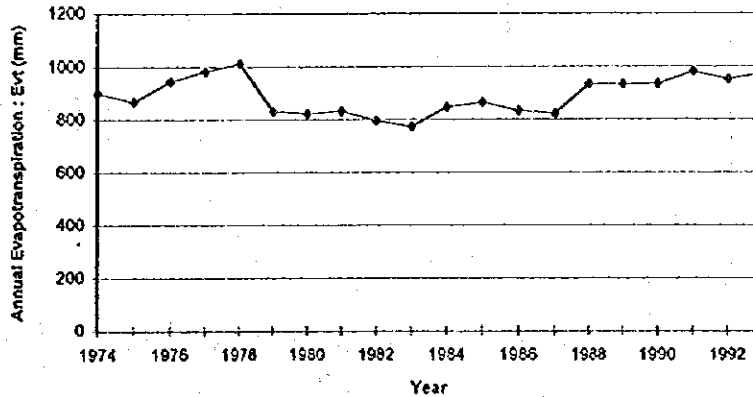
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02549041 (No 20)
 St. Name Piraquara

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	103.3	64.4	61.9	73.3	56.7	41.3	34.4	64.3	70.3	97.9	133.1	97.9	74.9	898.8
2 1975	108.9	96.7	85.5	73.2	45.4	36.5	39.3	57.4	62.1	82.1	94.8	86.0	72.3	867.9
3 1976	103.5	94.1	90.7	64.8	42.5	38.9	44.2	62.8	66.6	101.5	117.9	119.0	78.7	944.6
4 1977	95.8	104.6	87.7	62.7	56.6	40.4	68.0	69.8	81.0	106.7	92.1	117.3	81.9	992.6
5 1978	119.0	114.8	95.0	77.9	54.9	45.9	45.9	59.2	73.6	106.6	107.6	112.0	84.4	1012.4
6 1979	118.4	108.9	80.1	53.5	37.2	27.1	31.2	49.3	57.1	80.8	93.1	95.2	69.2	830.8
7 1980	120.3	82.6	95.3	63.1	41.7	28.0	31.3	41.9	53.0	77.7	83.5	103.5	68.5	821.9
8 1981	106.1	97.3	82.9	57.0	43.9	28.3	46.4	47.4	66.0	68.4	96.1	91.0	69.2	830.9
9 1982	104.7	88.7	69.7	56.4	40.0	29.6	34.4	47.6	60.7	78.2	83.9	100.8	66.2	794.5
10 1983	108.9	78.4	70.8	47.4	34.6	25.3	31.1	46.5	47.1	70.9	107.7	103.9	64.4	772.5
11 1984	127.2	116.1	76.5	54.5	45.7	32.7	33.4	38.1	61.7	85.3	80.5	94.8	70.5	846.6
12 1985	105.4	83.4	80.1	57.5	42.0	29.5	32.4	49.9	57.3	104.5	107.5	114.9	72.0	864.4
13 1986	117.7	85.4	84.7	59.9	40.1	31.2	31.4	46.6	56.3	90.1	93.0	95.4	69.3	831.8
14 1987	115.3	86.9	93.8	55.8	34.7	27.9	38.8	44.8	53.5	75.3	92.0	103.8	68.5	822.5
15 1988	132.8	83.7	103.4	58.6	39.1	28.1	43.9	67.6	74.4	83.8	116.6	96.2	77.8	933.0
16 1989	106.9	93.5	88.6	72.8	47.4	34.0	44.6	60.0	67.3	96.2	115.0	106.5	77.7	832.6
17 1990	87.2	122.2	92.3	71.4	50.3	38.6	38.3	55.6	68.5	91.3	100.5	120.9	77.9	934.9
18 1991	117.6	107.4	80.2	68.1	51.4	38.4	50.2	56.9	70.3	96.8	118.6	123.9	81.7	979.9
19 1992	136.0	103.6	85.0	69.4	46.2	41.5	40.5	47.9	63.5	93.5	101.8	123.1	79.3	951.9
20 1993	118.5	82.9	90.4	71.8	48.2	35.9	47.8	63.2	60.7	93.7	135.7	123.2	81.1	972.9
Mean	112.7	94.8	84.7	63.5	44.9	33.9	40.3	53.8	63.5	89.3	103.5	106.5	74.3	891.4

Monthly Mean Evapotranspiration (No. 20)
 St. No. 02549041 Piraquara
 1974 - 1993 (20 Years)



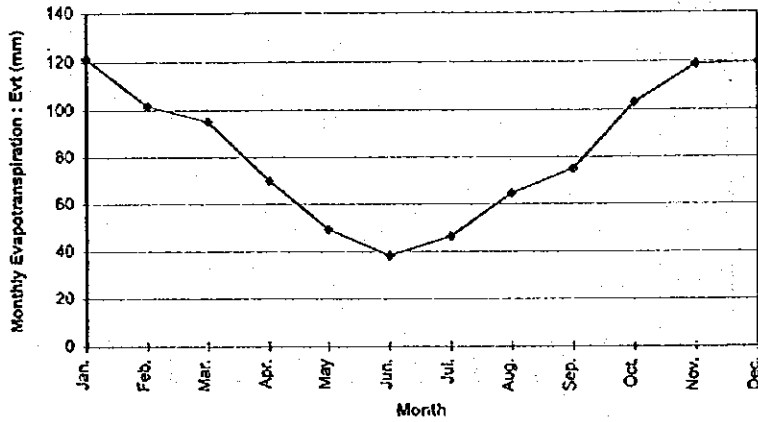
Annual Evapotranspiration (No. 20)
 St. No. 02549041 Piraquara
 1974 - 1993 (20 Years)



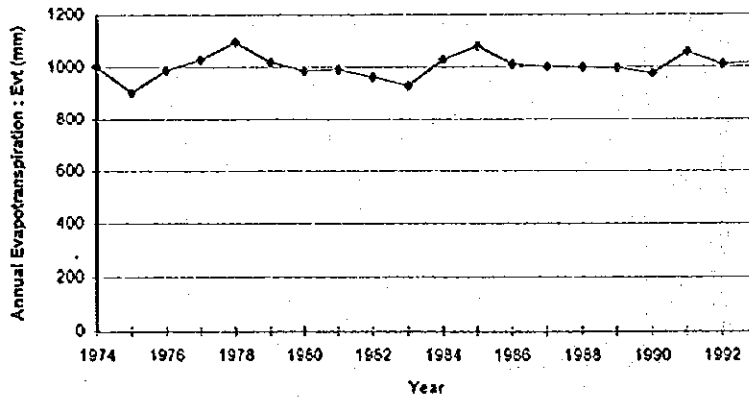
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02549025 (No 21)
 St. Name Lapa

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	109.1	113.6	82.0	76.3	58.1	41.3	33.8	65.5	73.0	103.3	141.8	103.3	83.5	1002.1
2 1975	115.2	102.0	89.6	76.3	45.8	36.1	39.1	58.9	64.0	85.0	99.9	90.2	75.3	903.1
3 1976	109.4	99.1	95.3	67.1	42.6	36.5	44.4	64.8	69.0	107.2	125.2	126.3	82.3	987.0
4 1977	100.9	110.6	92.1	64.7	58.0	40.4	70.5	72.4	84.7	112.9	96.9	124.5	85.7	1028.6
5 1978	126.3	121.7	100.1	81.4	56.2	46.4	46.3	65.6	84.9	125.2	113.7	122.1	91.2	1094.8
6 1979	132.4	109.4	102.5	67.9	49.8	43.9	44.6	63.3	71.6	108.9	114.8	108.5	84.8	1017.8
7 1980	125.1	92.5	106.7	74.8	48.1	39.6	47.2	56.5	64.5	98.0	113.1	119.8	82.1	985.8
8 1981	110.9	101.9	96.9	74.0	52.4	37.4	47.2	70.2	79.2	89.6	124.5	106.1	82.5	990.4
9 1982	123.0	92.9	86.1	69.5	53.5	34.0	44.7	61.2	88.4	99.0	93.9	115.1	80.1	961.5
10 1983	116.5	86.7	83.3	54.5	41.2	29.9	42.8	72.6	60.1	91.5	127.4	122.4	77.4	929.0
11 1984	135.6	125.0	90.0	65.9	51.3	43.3	52.7	45.2	87.1	117.0	99.7	112.8	85.7	1028.7
12 1985	133.5	90.9	87.1	64.1	54.0	40.4	47.5	80.1	80.5	113.7	141.8	149.1	90.0	1079.7
13 1986	138.0	87.5	97.5	72.3	47.7	43.5	40.8	60.5	78.1	121.3	115.6	109.6	84.2	1010.5
14 1987	127.7	90.0	118.6	62.7	39.8	33.8	60.0	66.1	74.9	85.3	113.4	118.2	83.4	1000.6
15 1988	131.7	83.0	111.8	63.2	34.1	26.8	47.7	81.9	80.5	100.1	133.1	104.1	83.2	998.0
16 1989	103.3	94.3	99.8	73.5	48.6	35.9	44.1	64.0	75.3	104.1	129.0	123.9	83.0	995.8
17 1990	91.5	114.1	97.3	72.6	53.4	37.8	36.4	57.9	73.5	97.8	112.5	131.1	81.3	976.2
18 1991	132.1	115.9	88.0	69.7	53.8	41.6	50.4	63.3	78.5	99.0	128.5	135.8	88.0	1056.4
19 1992	145.6	116.1	89.6	72.5	45.5	42.3	40.0	50.8	67.4	94.3	110.6	135.1	84.1	1009.8
20 1993	125.8	88.1	93.5	73.9	49.9	37.5	47.6	64.2	62.5	98.0	142.4	134.4	84.8	1017.2
Mean	121.6	101.8	95.4	69.8	49.2	38.4	48.4	64.5	74.9	103.1	118.9	119.7	83.6	1003.6

Monthly Mean Evapotranspiration (No. 21)
 St. No. 02549025 Lapa
 1974 - 1993 (20 Years)



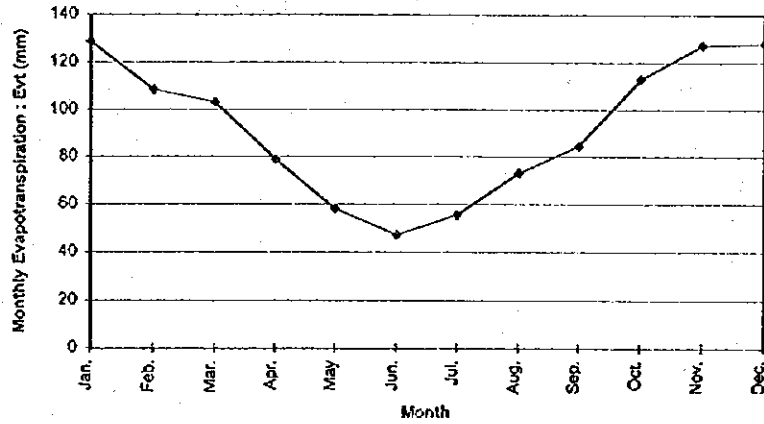
Annual Evapotranspiration (No. 21)
 St. No. 02549025 Lapa
 1974 - 1993 (20 Years)



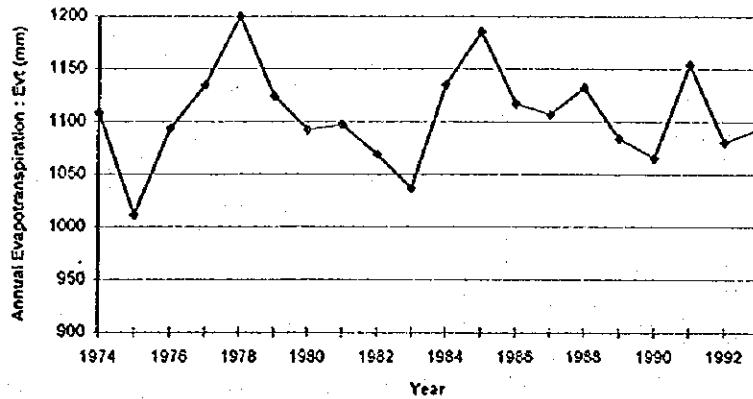
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02550024 (No 22)
 St. Name Ponta Grossa

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	117.6	122.0	90.9	83.3	67.4	50.9	43.5	75.6	82.1	111.8	149.7	111.8	92.4	1108.6
2 1975	123.6	110.6	98.4	85.3	55.2	45.7	48.7	68.2	73.2	94.8	108.5	99.0	84.3	1011.1
3 1976	117.8	107.7	104.0	76.2	52.2	48.1	53.9	74.0	78.2	115.7	133.4	134.5	91.1	1093.8
4 1977	109.5	119.0	100.8	73.9	67.3	49.9	79.6	81.5	93.6	121.3	105.5	132.7	94.6	1134.6
5 1978	134.5	129.9	108.7	90.3	65.5	55.8	55.8	74.7	93.7	133.4	122.1	135.2	100.0	1199.8
6 1979	140.5	117.9	111.1	77.0	59.3	53.5	54.1	72.5	80.7	117.3	123.2	117.0	93.7	1124.0
7 1980	133.3	101.2	115.2	83.8	57.5	49.2	56.6	65.8	73.7	106.6	121.5	128.1	91.0	1092.5
8 1981	119.3	110.5	105.6	83.0	61.8	47.0	56.7	79.3	88.2	98.4	132.7	114.6	91.4	1097.1
9 1982	131.2	101.7	95.0	73.6	62.9	43.7	54.2	70.5	97.2	107.7	102.6	120.5	89.1	1068.6
10 1983	124.9	95.6	92.2	63.9	50.7	39.6	52.4	81.7	69.3	100.2	135.6	130.7	88.4	1036.6
11 1984	143.7	133.2	98.8	75.1	60.7	52.9	62.1	57.7	55.9	125.3	108.3	121.2	94.6	1134.8
12 1985	141.6	99.6	93.9	73.3	63.4	49.9	56.9	89.0	89.4	122.1	149.7	154.0	98.7	1184.9
13 1986	144.0	96.3	106.1	81.4	57.2	53.0	50.4	69.8	87.1	129.5	124.0	118.1	93.1	1116.8
14 1987	135.8	98.8	126.9	72.0	49.4	43.5	69.3	75.2	84.0	104.0	121.8	126.6	92.3	1107.1
15 1988	139.8	91.9	120.2	72.4	43.7	35.6	57.1	90.8	100.4	117.8	143.6	117.5	94.3	1131.5
16 1989	104.8	96.9	107.7	86.0	57.7	40.9	53.6	70.6	24.3	117.5	136.4	127.6	90.3	1083.9
17 1990	94.4	115.8	105.9	81.7	60.4	44.1	41.7	67.5	83.3	112.0	117.0	141.5	88.8	1065.2
18 1991	141.2	123.6	88.5	76.0	60.4	47.2	62.1	89.9	92.5	109.3	139.3	143.8	96.2	1153.8
19 1992	150.2	109.5	89.0	75.8	52.4	50.7	49.6	57.9	75.4	107.5	119.3	143.2	90.0	1080.5
20 1993	126.8	88.0	102.7	84.5	58.7	44.3	53.5	71.5	68.3	109.4	148.8	137.5	91.2	1093.9
Mean	128.7	108.5	103.2	78.8	58.2	47.2	55.6	73.2	84.5	113.1	127.1	127.9	92.2	1106.0

Monthly Mean Evapotranspiration (No. 22)
 St. No. 02550024 Ponta Grossa
 1974 - 1993 (20 Years)



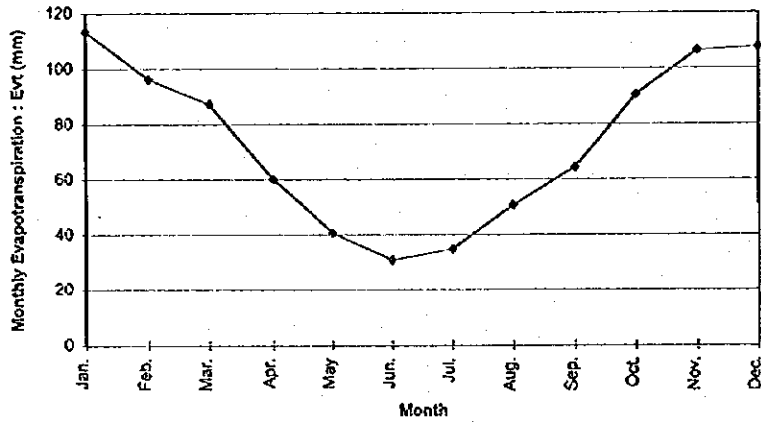
Annual Evapotranspiration (No. 22)
 St. No. 02550024 Ponta Grossa
 1974 - 1993 (20 Years)



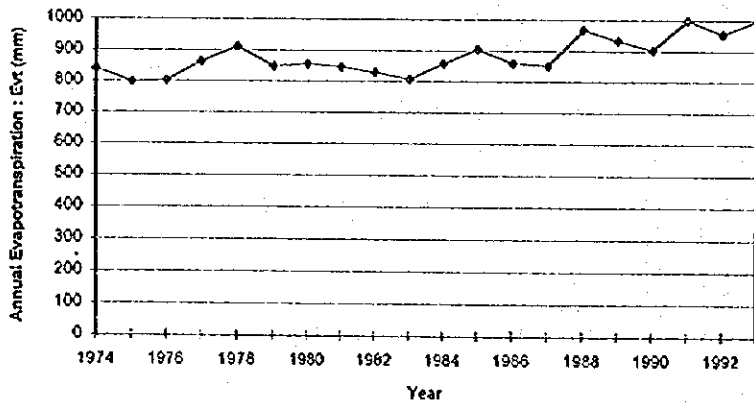
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02550025 (No 23)
 St. Name Teixeira

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	101.6	99.0	73.1	59.8	41.9	27.0	35.3	47.5	64.3	83.4	113.8	88.3	70.1	840.9
2 1975	105.5	92.5	80.5	57.7	37.7	28.3	31.2	50.5	55.5	76.9	90.5	92.0	66.6	798.8
3 1976	90.6	92.1	79.8	56.3	36.3	27.9	31.1	48.4	53.4	81.9	103.2	101.4	66.9	802.2
4 1977	93.3	114.8	84.0	54.8	43.9	30.0	40.3	47.3	67.1	93.8	86.9	109.1	72.1	865.3
5 1978	118.9	104.2	91.6	67.8	42.6	30.0	33.4	45.4	67.4	103.4	98.6	108.7	76.0	912.0
6 1979	118.4	99.0	88.8	54.7	36.3	28.5	30.3	50.3	60.0	86.6	98.6	95.2	70.7	848.6
7 1980	113.2	92.5	100.6	62.0	40.4	27.9	32.2	44.4	53.8	93.1	97.2	97.5	71.4	856.8
8 1981	104.0	97.0	88.8	59.0	43.1	28.0	30.7	50.4	70.3	76.9	104.6	94.1	70.6	846.8
9 1982	114.2	91.7	77.8	59.1	40.5	27.4	33.2	49.0	67.9	82.5	82.8	103.3	69.1	829.3
10 1983	110.3	83.8	79.2	51.3	35.0	23.0	31.6	50.3	49.7	76.4	112.3	102.5	67.3	807.6
11 1984	124.1	115.3	75.1	53.6	43.3	32.0	34.3	39.0	68.2	93.7	85.5	94.8	71.6	858.9
12 1985	124.5	81.5	84.0	58.1	41.5	28.6	31.3	54.2	62.5	94.7	121.9	121.8	75.4	904.5
13 1986	123.2	79.3	89.4	62.5	40.7	31.9	30.4	47.9	60.2	97.6	100.4	97.1	71.7	860.8
14 1987	120.4	88.6	96.9	55.0	33.6	27.0	38.4	48.0	57.8	79.0	100.0	109.9	71.1	852.7
15 1988	129.4	83.6	104.6	58.2	37.4	41.7	39.6	66.9	77.8	98.5	130.8	99.0	80.6	967.4
16 1989	101.9	90.3	92.6	68.9	45.0	32.6	39.6	55.5	72.8	99.0	116.8	118.2	77.8	933.3
17 1990	92.9	114.4	89.3	62.4	44.9	32.4	31.4	50.7	69.7	94.3	101.2	121.1	75.4	904.5
18 1991	124.4	110.6	88.6	62.0	45.0	38.0	40.0	55.4	76.1	95.9	129.0	131.7	83.2	997.8
19 1992	132.9	107.9	84.0	66.0	35.9	37.0	38.0	50.3	68.9	88.6	112.0	133.8	79.6	955.2
20 1993	122.2	84.1	95.9	73.9	45.6	33.7	41.2	62.7	62.1	102.4	141.5	131.3	83.1	996.7
Mean	113.3	96.1	87.2	60.1	40.6	30.7	34.7	50.6	64.3	90.4	106.4	107.5	73.5	882.0

Monthly Mean Evapotranspiration (No. 23)
 St. No. 02550025 Teixeira
 1974 - 1993 (20 Years)



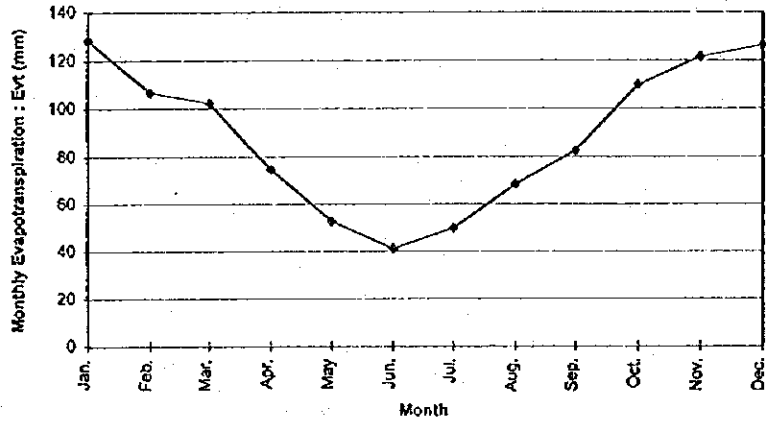
Annual Evapotranspiration (No. 23)
 St. No. 02550025 Teixeira
 1974 - 1993 (20 Years)



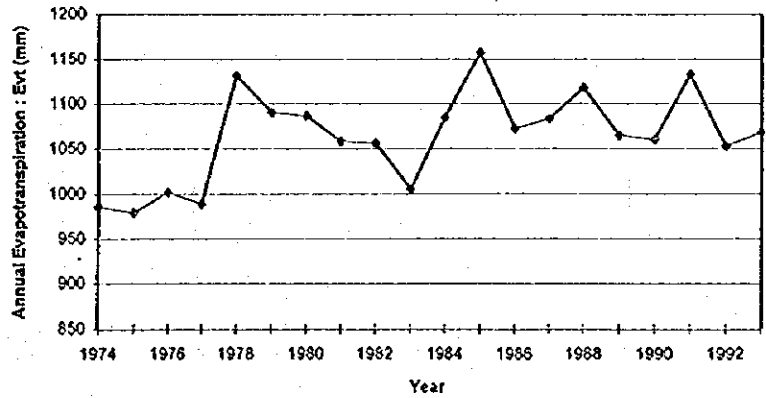
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02551010 (No 24)
 St. Name Guarapuava

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	100.7	98.5	87.9	74.4	56.1	40.9	49.4	61.8	79.0	104.6	129.5	103.5	82.2	586.2
2 1975	121.0	107.8	95.5	72.2	51.8	42.2	45.2	64.9	70.0	91.9	105.7	111.2	81.6	979.4
3 1976	103.9	108.8	93.4	69.4	45.3	40.0	47.1	66.9	70.8	110.8	116.4	124.1	83.5	1001.9
4 1977	98.7	106.0	90.4	64.9	47.6	33.7	57.5	69.0	81.8	112.7	105.5	121.4	82.4	989.2
5 1978	137.2	121.1	113.0	94.1	68.4	47.6	51.0	59.7	82.2	118.9	113.9	124.2	94.3	1131.3
6 1979	151.6	121.1	109.8	75.8	49.9	44.3	45.1	68.0	81.8	108.2	121.1	113.7	80.9	1090.5
7 1980	140.1	110.1	109.3	61.3	51.7	45.3	52.7	65.2	76.1	110.4	122.6	121.0	90.6	1086.9
8 1981	119.3	101.7	106.5	73.5	58.2	39.7	52.2	74.6	96.1	99.6	119.0	118.0	88.2	1058.3
9 1982	150.0	100.0	99.5	81.9	58.8	36.4	48.3	68.0	93.0	103.3	95.1	122.1	88.0	1056.4
10 1983	129.1	98.1	102.7	66.9	44.7	32.2	43.9	75.3	69.7	100.7	115.6	125.4	83.8	1025.4
11 1984	128.4	129.8	95.0	74.0	54.3	43.4	51.4	59.2	92.7	125.9	104.6	126.0	90.4	1084.8
12 1985	155.5	89.3	92.6	71.4	58.8	44.6	51.6	74.5	91.5	123.2	149.9	154.6	96.4	1157.3
13 1986	134.0	94.3	104.6	76.0	49.3	47.4	49.2	66.8	86.7	119.3	124.5	120.8	89.4	1072.7
14 1987	139.6	104.0	119.0	71.1	44.2	41.6	56.4	68.1	81.6	103.2	121.5	133.2	90.3	1083.5
15 1988	135.8	93.0	116.3	66.6	41.3	34.7	55.3	85.9	104.5	119.3	149.3	116.1	93.2	1118.1
16 1989	105.2	88.0	108.3	78.5	55.6	39.4	51.6	70.1	80.3	116.1	128.0	134.0	83.8	1065.2
17 1990	104.9	125.8	104.5	77.1	54.5	40.5	39.9	67.0	81.7	106.8	114.7	142.9	88.4	1060.2
18 1991	145.7	124.1	103.8	74.9	56.8	42.5	54.2	68.0	86.2	107.8	133.6	135.2	94.4	1132.8
19 1992	140.1	111.8	88.7	70.5	50.0	45.2	45.6	59.2	75.9	103.7	119.4	143.1	87.8	1053.2
20 1993	124.6	91.0	102.5	78.5	55.4	41.6	47.1	74.3	70.1	111.2	139.5	132.9	89.0	1068.5
Mean	128.3	106.7	102.4	74.6	52.6	41.2	49.7	68.4	82.6	109.9	121.5	126.2	88.7	1064.1

Monthly Mean Evapotranspiration (No. 24)
 St. No. 02551010 Guarapuava
 1974 - 1993 (20 Years)



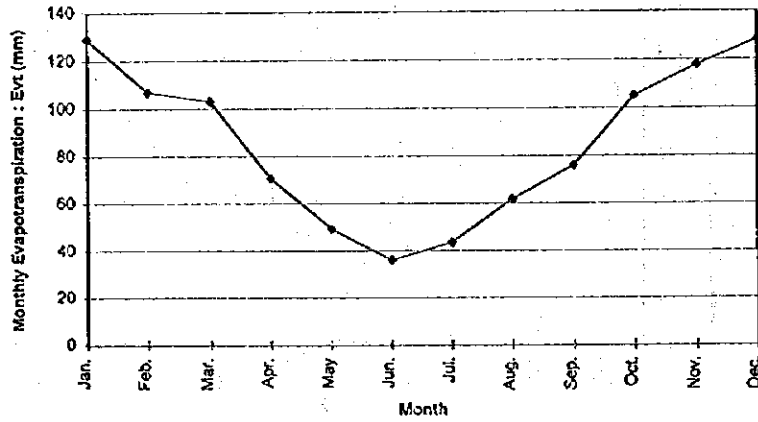
Annual Evapotranspiration (No. 24)
 St. No. 02551010 Guarapuava
 1974 - 1993 (20 Years)



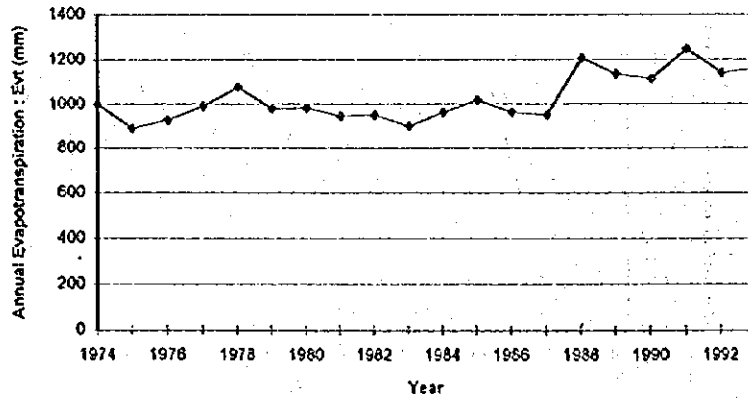
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02552009 (No.25)
 St. Name Laranjeiras

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	111.8	105.0	96.6	36.9	48.5	29.6	40.6	52.8	75.1	116.0	142.6	142.1	83.4	1000.6
2 1975	133.6	103.4	91.1	69.9	43.1	33.1	36.3	59.3	64.0	86.7	56.5	113.7	74.2	890.6
3 1976	105.6	110.0	98.5	67.4	40.3	30.6	37.1	53.4	61.4	98.1	110.9	115.0	77.3	928.1
4 1977	102.7	114.7	93.2	70.8	51.3	35.0	48.0	53.9	75.6	108.8	107.3	129.5	82.6	991.0
5 1978	147.7	123.8	110.5	81.2	50.3	34.4	39.4	51.1	77.8	104.6	116.1	139.2	89.7	1076.1
6 1979	146.6	116.5	103.3	63.3	40.9	33.2	35.3	59.3	67.5	92.4	112.2	109.1	81.6	979.6
7 1980	131.5	106.4	111.5	76.2	46.2	31.5	37.7	53.2	61.8	95.1	109.8	121.1	81.8	982.0
8 1981	118.9	94.0	104.7	69.5	55.3	30.2	36.5	57.8	76.0	88.4	107.8	106.9	78.8	946.0
9 1982	137.1	68.3	99.9	74.6	46.9	29.6	41.1	59.0	76.2	97.0	88.0	112.8	79.2	950.6
10 1983	119.0	94.0	97.0	60.9	41.9	25.0	32.1	57.4	58.4	87.9	106.8	119.3	75.0	899.7
11 1984	116.4	119.2	93.8	63.0	50.4	34.3	41.3	47.1	77.2	111.7	94.2	113.8	80.2	962.4
12 1985	146.2	90.5	92.0	65.3	51.4	34.6	36.7	56.2	68.6	104.5	130.5	141.6	84.8	1018.0
13 1986	126.7	92.8	99.0	68.5	44.7	38.4	38.5	55.8	71.0	104.0	111.2	112.8	80.3	963.2
14 1987	126.9	94.1	104.5	65.6	35.7	32.3	43.7	52.3	67.5	92.3	114.7	121.7	79.3	951.2
15 1988	139.6	97.2	123.2	75.0	43.9	39.6	69.1	99.4	113.7	128.1	161.8	126.4	100.6	1207.0
16 1989	109.2	103.8	117.2	83.2	60.5	42.7	57.2	74.2	85.6	126.4	137.1	138.0	94.6	1135.0
17 1990	113.1	130.9	102.4	79.7	57.5	43.1	43.1	74.0	85.1	115.1	124.4	146.5	92.9	1114.9
18 1991	158.0	136.4	114.2	82.0	63.0	47.7	65.1	75.5	97.2	116.9	144.8	146.6	103.9	1247.3
19 1992	155.2	117.7	100.0	75.1	51.8	49.8	47.7	63.1	80.8	111.1	130.9	157.0	95.0	1140.2
20 1993	133.8	100.6	108.5	85.0	61.8	46.4	53.8	80.1	75.9	117.6	148.4	148.7	96.7	1160.7
Mean	129.0	107.0	103.1	70.6	49.3	36.1	43.5	61.7	76.0	105.1	117.8	128.1	85.6	1027.2

Monthly Mean Evapotranspiration (No. 25)
 St. No. 02552009 Laranjeiras
 1974 - 1993 (20 Years)



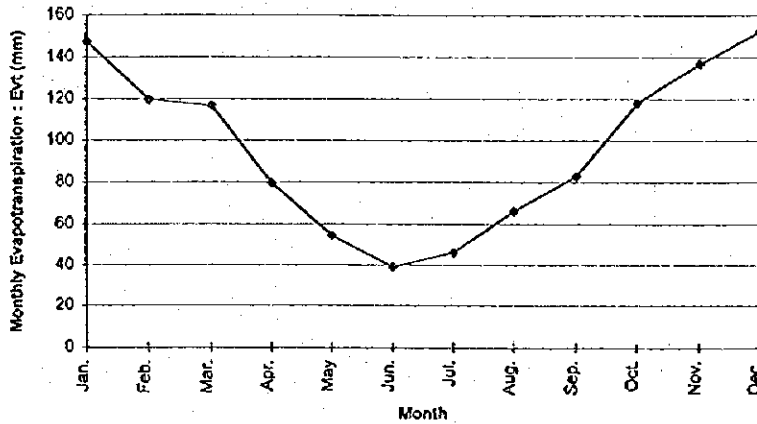
Annual Evapotranspiration (No. 25)
 St. No. 02552009 Laranjeiras
 1974 - 1993 (20 Years)



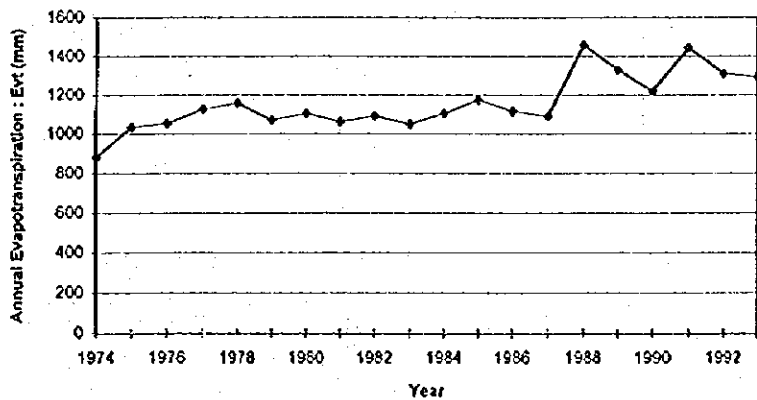
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02553015 (No.26)
 St. Name Planalto

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	76.0	66.0	59.1	53.0	43.7	29.4	40.6	53.4	77.8	104.3	135.1	143.6	73.5	882.1
2 1975	133.9	116.5	101.7	73.7	49.2	34.2	38.2	58.1	68.3	95.8	128.2	137.6	88.3	1035.2
3 1976	126.0	122.9	106.5	75.9	44.5	30.8	39.7	58.4	64.7	114.8	128.7	142.5	87.8	1053.4
4 1977	122.9	134.6	108.3	79.3	53.0	40.0	51.7	55.5	88.2	123.1	123.2	149.6	93.9	1127.3
5 1978	155.7	137.7	123.4	84.4	50.6	37.0	43.4	51.5	79.6	112.9	124.0	157.8	96.5	1157.9
6 1979	163.7	126.4	117.9	67.4	43.2	35.1	39.0	60.6	73.0	99.2	126.4	118.6	89.2	1070.5
7 1980	159.2	123.7	120.7	87.8	49.5	33.7	37.6	57.9	69.4	102.0	122.8	140.9	92.1	1104.8
8 1981	135.3	103.8	125.0	77.0	62.3	31.1	38.6	59.7	79.6	102.5	124.2	125.5	88.5	1062.5
9 1982	169.7	105.2	117.4	90.1	52.3	30.2	44.1	62.6	83.8	104.6	96.2	136.0	91.0	1092.0
10 1983	140.7	107.8	114.6	67.0	43.3	26.8	32.1	58.3	66.7	111.0	124.3	158.0	87.5	1050.4
11 1984	141.8	134.3	105.5	67.5	54.7	35.1	44.4	50.0	85.3	128.0	120.0	139.2	92.1	1105.7
12 1985	170.4	111.2	109.8	73.6	54.0	37.8	40.2	55.9	73.8	119.6	154.6	173.9	97.9	1174.9
13 1986	157.4	113.9	114.1	75.3	49.2	41.9	44.5	60.6	77.7	112.4	128.1	142.7	93.1	1117.8
14 1987	150.9	106.8	127.5	73.7	39.2	34.7	43.3	55.7	77.7	101.4	137.0	144.6	91.0	1092.3
15 1988	174.3	129.5	163.6	90.4	44.7	44.7	64.5	115.3	127.3	153.7	196.7	154.3	121.6	1458.8
16 1989	118.7	122.3	132.0	95.2	78.5	49.0	65.4	86.0	91.8	154.3	163.0	171.4	110.7	1328.7
17 1990	126.9	128.5	111.6	83.2	71.5	46.8	41.4	84.6	87.9	126.1	143.9	171.4	101.8	1221.7
18 1991	188.6	152.1	143.2	92.6	75.1	54.3	63.1	94.3	119.0	129.4	168.0	163.2	120.2	1442.8
19 1992	182.3	132.5	105.4	82.5	56.7	57.5	52.0	75.0	94.5	126.6	150.2	196.0	109.2	1311.0
20 1993	153.9	119.8	126.4	100.2	74.3	52.0	60.3	71.4	73.7	135.1	143.5	183.2	107.8	1293.8
Mean	147.4	119.7	116.7	79.5	54.5	39.1	45.2	66.1	82.9	117.8	138.9	152.5	96.6	1159.2

Monthly Mean Evapotranspiration (No. 26)
 St. No. 02553015 Planalto
 1974 - 1993 (20 Years)



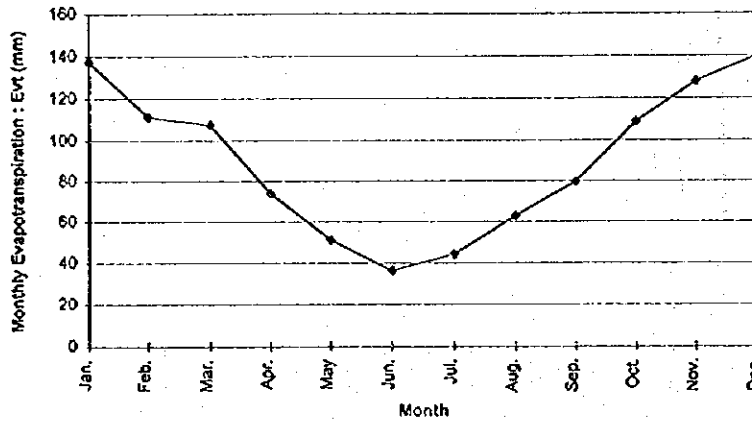
Annual Evapotranspiration (No. 26)
 St. No. 02553015 Planalto
 1974 - 1993 (20 Years)



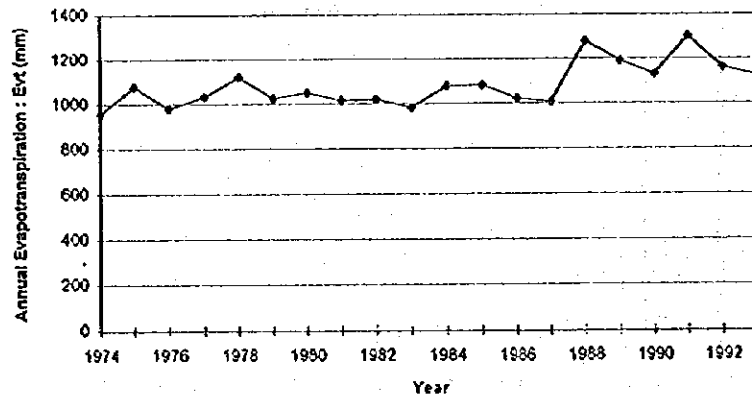
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02553018 (No 27)
 St. Name Quedas

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	72.8	63.8	57.6	52.0	43.6	30.7	40.9	70.7	103.8	120.8	149.6	149.1	79.6	955.4
2 1975	139.9	114.4	110.7	82.0	60.2	45.5	59.5	57.4	82.6	91.5	114.0	120.5	89.8	1078.1
3 1976	112.1	115.2	102.3	70.2	41.3	28.3	36.4	54.7	56.5	107.1	122.4	133.8	81.7	980.3
4 1977	107.8	121.2	93.7	73.3	50.9	35.7	48.5	52.6	79.0	111.0	110.5	143.0	86.0	1032.1
5 1978	157.1	128.6	115.7	82.9	49.9	34.4	40.0	52.3	79.3	108.4	119.1	153.1	93.4	1120.6
6 1979	158.5	119.0	109.0	65.1	40.9	32.0	36.3	59.2	70.3	96.6	121.9	117.0	85.5	1025.8
7 1980	146.6	112.8	117.3	83.0	47.0	32.4	38.1	56.5	66.1	100.1	118.5	131.1	87.5	1049.4
8 1981	131.2	100.4	117.1	74.3	58.1	31.1	37.2	58.1	76.0	96.7	117.7	117.6	84.6	1015.4
9 1982	154.4	98.2	113.6	81.3	47.2	30.1	41.4	61.0	79.7	98.1	87.5	126.3	84.9	1018.6
10 1983	133.4	101.6	105.8	65.6	44.1	26.1	31.9	55.2	61.5	96.3	117.7	143.9	81.9	983.0
11 1984	136.8	131.9	96.6	60.7	55.3	35.5	45.0	50.5	85.9	128.7	112.6	139.8	89.9	1079.4
12 1985	159.3	97.7	101.7	67.9	49.3	34.6	37.9	53.1	68.6	108.7	145.4	158.1	90.2	1082.3
13 1986	143.6	105.4	101.6	68.6	45.0	37.1	39.1	56.6	72.8	100.9	121.5	130.6	85.2	1022.7
14 1987	140.5	100.6	113.6	65.6	36.5	29.6	42.1	53.2	70.6	94.8	128.1	132.1	83.9	1007.2
15 1988	151.2	114.2	132.7	78.3	44.5	48.8	62.4	102.8	112.5	129.4	171.8	129.6	106.5	1278.1
16 1989	117.8	107.8	118.9	84.4	63.2	41.1	57.3	75.3	87.1	129.6	151.5	156.3	99.2	1150.3
17 1990	111.7	122.7	105.0	74.2	58.9	42.4	41.5	80.6	83.6	118.1	134.2	158.7	94.3	1131.6
18 1991	175.8	140.2	128.8	87.8	64.6	45.9	61.2	76.5	105.4	121.1	146.1	150.1	108.5	1301.4
19 1992	168.9	118.0	99.4	78.7	51.2	46.5	43.2	61.3	82.6	112.6	133.3	164.6	96.7	1160.1
20 1993	131.4	112.4	107.0	82.9	71.3	38.5	44.6	68.6	70.8	111.4	133.8	152.2	93.7	1124.9
Mean	137.5	111.3	107.6	73.9	51.1	36.3	44.2	62.8	79.7	109.1	128.1	140.2	90.2	1081.8

Monthly Mean Evapotranspiration (No. 27)
 St. No. 02553018 Quedas
 1974 - 1993 (20 Years)



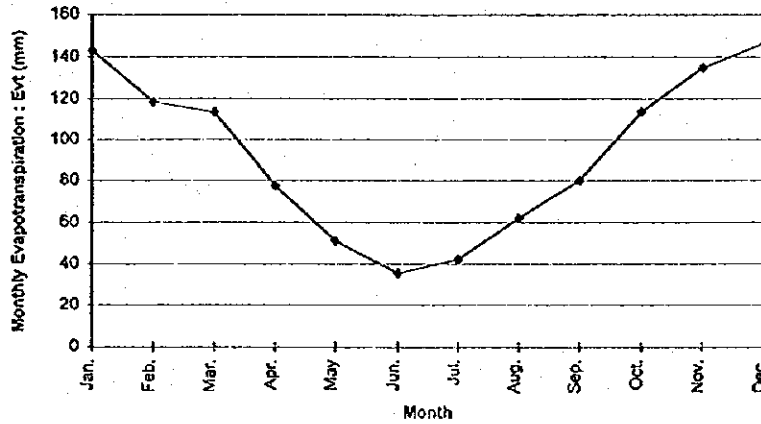
Annual Evapotranspiration (No. 27)
 St. No. 02553018 Quedas
 1974 - 1993 (20 Years)



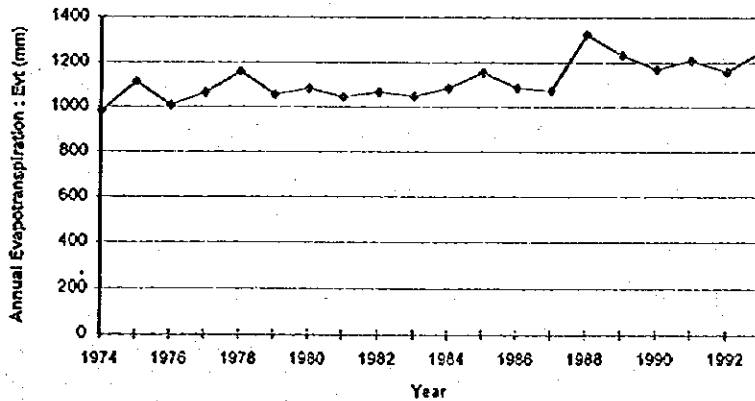
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02554026 (No 28)
 St. Name Sao Miguel

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	74.5	64.9	53.2	52.2	43.2	29.3	40.2	72.3	107.8	126.0	156.9	156.3	81.8	991.8
2 1975	146.4	119.1	115.2	84.4	60.9	45.2	60.2	58.0	85.0	94.5	118.6	123.7	92.8	1113.4
3 1976	116.7	119.9	106.1	71.8	40.7	26.8	35.5	55.1	57.1	111.3	127.7	140.0	84.0	1008.5
4 1977	112.0	126.4	102.3	75.0	51.0	34.7	48.5	52.9	81.2	115.5	114.9	149.6	88.7	1064.1
5 1978	164.9	134.3	120.5	85.3	49.9	33.3	39.3	52.5	81.4	112.6	124.1	160.7	96.6	1158.9
6 1979	166.4	124.1	113.3	65.3	40.3	30.8	35.3	59.9	71.8	100.0	127.2	121.9	88.1	1057.2
7 1980	153.7	117.4	122.3	85.4	48.8	31.1	37.2	57.0	67.4	103.8	123.5	137.0	90.2	1082.7
8 1981	137.1	104.1	122.0	76.1	58.7	29.8	36.3	58.7	78.0	100.2	122.7	122.5	87.2	1046.1
9 1982	162.0	101.7	118.3	83.6	47.0	28.7	40.8	61.9	79.9	107.6	97.7	136.6	88.8	1065.8
10 1983	145.9	116.5	111.0	68.2	42.3	27.0	32.0	56.6	64.0	105.7	126.4	154.3	87.5	1049.7
11 1984	143.2	137.9	103.6	65.2	53.7	33.4	42.7	48.2	81.1	123.6	117.2	134.6	90.5	1085.4
12 1985	154.1	118.0	111.2	71.9	52.3	35.5	37.0	51.7	73.2	113.5	151.7	175.6	96.3	1155.6
13 1986	155.5	111.2	111.7	74.6	47.5	39.5	38.3	58.5	74.5	109.1	129.2	136.5	90.5	1086.2
14 1987	144.8	109.0	123.5	75.1	39.6	32.8	41.5	53.9	77.6	101.4	133.6	141.5	89.5	1074.2
15 1988	158.6	118.9	138.7	80.4	44.2	43.7	63.3	106.6	117.1	135.2	180.7	135.4	110.2	1322.8
16 1989	122.7	112.0	124.0	65.9	64.3	40.5	57.9	77.2	89.8	135.4	158.9	164.1	102.8	1233.7
17 1990	116.3	123.1	109.1	76.0	59.6	41.9	41.0	82.8	66.1	123.1	140.3	166.6	97.6	1170.8
18 1991	159.1	130.7	132.4	90.6	65.7	45.7	41.0	56.2	81.4	110.1	157.4	140.1	100.9	1210.6
19 1992	162.8	141.5	105.4	80.1	44.0	38.0	31.4	51.0	71.1	120.5	139.4	174.9	96.7	1159.9
20 1993	153.3	133.6	121.6	97.8	72.9	43.8	47.7	72.2	72.3	126.0	148.4	163.4	104.4	1252.9
Mean	143.0	118.5	113.5	77.4	51.2	35.6	42.4	62.2	79.9	113.7	134.8	146.9	93.3	1119.0

Monthly Mean Evapotranspiration (No. 28)
 St. No. 02554026 Sao Miguel
 1974 - 1993 (20 Years)



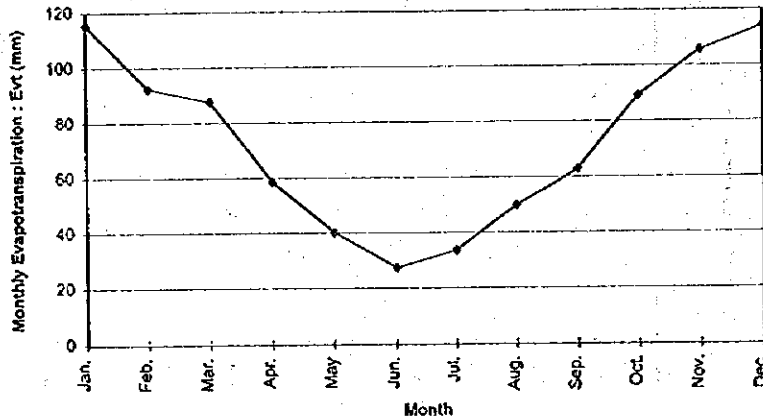
Annual Evapotranspiration (No. 28)
 St. No. 02554026 Sao Miguel
 1974 - 1993 (20 Years)



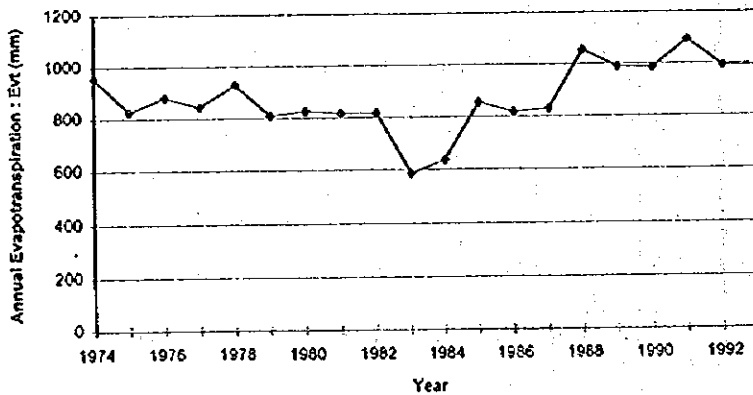
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02651000 (No 29)
 St Name Porto Uniao

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	119.2	104.3	92.4	69.9	47.2	18.9	28.7	57.5	69.6	102.1	129.4	115.8	79.6	655.1
2 1975	124.1	102.9	83.9	61.3	35.2	24.0	24.7	43.4	52.7	75.7	98.4	101.4	68.8	825.7
3 1976	102.6	99.4	89.4	59.6	39.0	32.6	31.7	51.2	50.1	89.8	111.0	123.2	73.3	879.6
4 1977	92.7	99.0	77.9	57.2	42.1	32.4	39.9	44.9	68.1	86.6	85.4	118.5	70.4	844.6
5 1978	121.6	96.4	87.3	60.5	52.3	30.8	33.0	47.0	75.0	97.4	101.3	125.3	77.3	927.9
6 1979	130.2	98.0	85.4	50.9	30.3	22.9	25.3	43.6	56.6	77.5	95.9	94.9	67.5	809.6
7 1980	121.4	91.3	91.4	61.5	34.6	22.6	25.8	40.8	52.0	77.4	98.9	107.0	68.7	824.4
8 1981	109.5	89.3	90.7	55.6	41.6	21.0	25.1	45.0	57.9	80.8	99.8	101.0	68.1	817.4
9 1982	127.3	79.0	88.5	60.9	35.2	21.6	29.1	44.9	64.0	80.3	79.3	106.4	68.0	816.5
10 1983	106.9	85.9	86.4	49.6	30.7	8.6	18.5	24.7	29.8	42.6	47.5	54.2	48.8	585.2
11 1984	54.6	46.2	41.7	28.7	29.0	23.9	27.6	34.1	59.1	97.3	86.8	106.7	53.0	635.6
12 1985	129.4	80.5	84.1	52.8	36.0	23.1	26.2	38.3	54.2	88.5	115.7	125.2	71.2	853.9
13 1986	116.5	87.3	83.2	52.9	33.8	27.0	27.9	43.0	56.9	85.3	97.3	107.2	68.2	818.1
14 1987	135.5	78.6	93.5	53.7	27.5	21.9	30.0	38.3	53.7	76.4	108.8	110.8	69.1	828.7
15 1988	130.3	97.7	112.9	64.3	35.9	23.2	53.5	78.1	93.1	115.1	142.2	107.2	87.8	1053.6
16 1989	95.7	92.0	97.4	68.3	51.3	35.8	47.8	64.2	71.4	107.2	126.3	131.8	82.4	989.2
17 1990	100.9	109.8	92.0	63.1	49.3	36.8	38.2	68.5	75.4	98.9	113.8	139.2	82.1	985.6
18 1991	143.9	119.4	103.3	69.1	55.0	38.8	55.9	66.7	84.1	103.2	128.4	125.0	91.0	1092.3
19 1992	135.8	99.5	82.1	61.9	43.6	41.8	42.3	54.8	73.8	96.9	118.0	141.7	82.7	992.2
20 1993	110.5	92.0	88.9	70.9	52.6	38.8	41.3	66.0	60.2	104.6	128.6	136.2	82.5	990.5
Mean	115.4	92.3	87.6	58.6	40.1	27.3	33.6	49.7	62.9	89.2	105.5	113.9	73.0	876.3

Monthly Mean Evapotranspiration (No. 29)
 St. No. 02651000 Porto Uniao
 1974 - 1993 (20 Years)



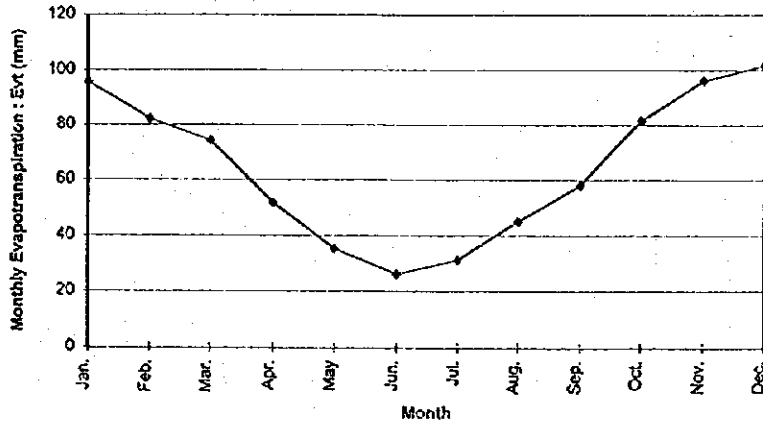
Annual Evapotranspiration (No. 29)
 St. No. 02651000 Porto Uniao
 1974 - 1993 (20 Years)



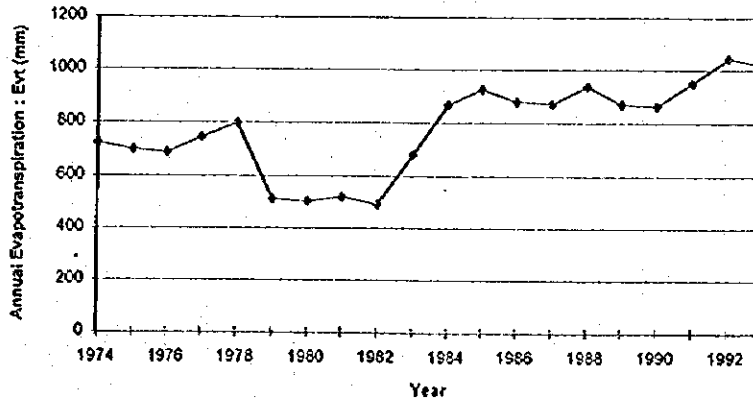
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02651043 (No.30)
 St. Name Palmas

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	89.9	64.1	40.3	52.4	35.4	21.9	28.3	39.0	56.8	77.7	93.6	103.8	60.3	723.2
2 1975	93.0	83.1	73.5	49.0	32.0	24.6	25.1	39.4	47.5	63.3	83.4	86.5	58.3	699.3
3 1976	80.0	82.8	72.2	51.2	30.5	21.6	26.4	38.3	44.3	72.8	83.1	85.6	57.4	688.9
4 1977	77.6	90.7	67.1	49.4	34.7	25.5	32.8	37.8	57.0	82.4	87.2	103.1	62.1	745.4
5 1978	112.2	91.3	83.5	58.1	35.5	24.8	28.2	36.6	57.0	77.2	86.4	106.6	66.5	797.5
6 1979	60.1	51.3	46.7	32.9	24.0	19.7	24.3	40.5	49.6	43.9	53.7	60.8	42.7	512.6
7 1980	59.6	51.1	49.0	35.5	26.0	19.8	22.3	29.0	34.4	61.8	54.8	61.0	42.0	504.0
8 1981	61.9	51.7	47.3	34.3	26.6	19.6	24.7	40.2	51.6	47.4	55.1	59.6	43.3	520.0
9 1982	60.4	50.8	47.6	34.1	25.0	20.9	22.9	30.3	38.0	49.2	54.7	60.0	41.1	492.6
10 1983	62.0	50.9	46.4	35.0	26.7	19.8	25.8	46.4	56.8	86.0	105.5	119.1	56.7	630.3
11 1984	115.6	110.9	81.8	54.9	40.0	22.5	27.4	40.0	55.9	104.9	89.6	114.7	72.4	658.3
12 1985	139.1	87.0	87.1	56.0	38.5	27.0	30.4	44.8	61.4	97.0	124.4	132.6	77.1	925.3
13 1986	126.9	90.6	91.5	57.1	38.2	29.9	30.5	46.9	61.1	92.6	107.1	106.5	73.2	878.9
14 1987	122.3	87.8	98.8	57.0	32.0	25.2	34.5	44.3	57.7	84.6	115.0	112.8	72.6	871.6
15 1988	109.6	88.8	103.4	55.1	31.8	29.5	48.0	67.5	80.2	97.7	125.0	99.6	78.0	636.1
16 1989	83.6	80.7	90.1	65.4	44.1	29.7	36.6	57.1	64.4	99.6	108.9	109.2	72.4	669.3
17 1990	87.1	100.0	78.7	56.8	47.1	32.4	34.9	53.2	64.2	87.7	101.8	119.8	72.0	663.6
18 1991	126.9	103.8	90.3	63.5	41.9	27.1	31.0	45.7	64.2	86.7	136.7	127.1	79.1	649.7
19 1992	143.0	108.8	92.1	66.6	45.1	41.5	47.6	56.2	79.4	105.1	122.6	129.8	66.9	1042.7
20 1993	97.5	93.9	97.5	71.0	52.0	39.3	44.1	67.1	69.4	112.1	137.6	135.6	64.8	1015.1
Mean	95.7	82.3	74.2	51.7	35.4	26.1	31.3	45.0	58.0	81.7	96.3	101.7	64.9	779.4

Monthly Mean Evapotranspiration (No. 30)
 St. No. 02651043 Palmas
 1974 - 1993 (20 Years)



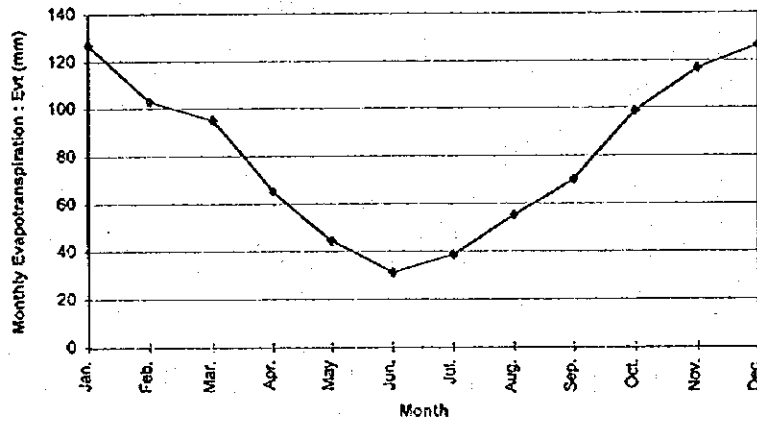
Annual Evapotranspiration (No. 30)
 St. No. 02651043 Palmas
 1974 - 1993 (20 Years)



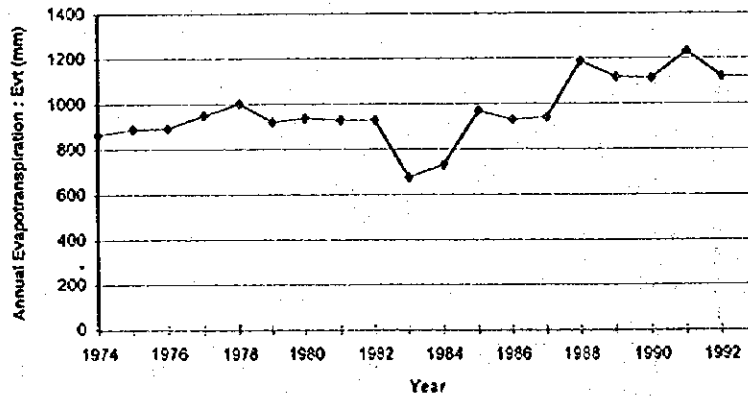
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02652003 (No 31)
 St. Name Clevelandia

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	114.6	101.8	43.4	60.3	39.0	23.6	34.3	47.8	67.1	85.5	117.9	120.4	72.2	865.8
2 1975	116.2	104.3	89.0	60.1	41.4	29.2	29.9	50.4	60.5	85.6	108.4	113.8	74.1	888.7
3 1976	105.0	106.3	90.7	61.8	34.0	24.0	28.8	47.3	57.7	94.2	113.6	129.1	74.4	892.3
4 1977	107.0	116.0	87.6	65.5	44.6	30.6	40.2	47.6	74.1	101.2	107.4	128.2	79.2	950.0
5 1978	139.7	117.7	103.4	72.2	43.0	28.2	33.5	45.4	70.0	100.0	111.5	138.0	83.5	1002.5
6 1979	145.2	107.9	96.3	58.6	30.0	28.0	30.6	50.6	64.8	87.7	107.8	106.6	76.7	920.0
7 1980	135.6	102.8	102.8	70.2	40.7	27.6	31.1	47.5	59.7	87.5	111.0	119.8	78.0	936.2
8 1981	122.7	100.6	102.1	63.7	43.4	25.9	30.3	52.1	66.2	91.3	112.0	113.4	77.4	928.6
9 1982	142.1	89.2	99.7	69.5	41.4	26.5	34.7	52.0	72.9	90.7	89.6	119.3	77.3	927.6
10 1983	119.7	96.9	97.3	57.1	38.5	12.3	23.1	29.9	35.5	49.5	54.8	62.1	56.2	674.8
11 1984	62.6	53.4	48.5	34.3	34.6	29.0	33.1	40.2	67.5	109.3	97.8	119.5	60.8	729.8
12 1985	144.4	90.9	94.9	60.7	42.2	28.2	31.5	44.8	62.2	99.7	129.4	139.8	80.7	968.5
13 1986	130.3	98.4	93.8	60.8	39.8	32.4	33.4	49.9	65.1	96.1	109.3	120.1	77.4	929.4
14 1987	151.1	88.8	105.2	61.7	32.9	26.8	35.7	44.8	61.6	86.5	121.8	124.1	78.4	940.9
15 1988	145.4	109.7	128.3	73.2	42.2	28.3	61.5	88.3	104.8	128.7	158.4	120.1	98.9	1186.9
16 1989	107.6	103.5	109.4	77.6	59.0	42.1	55.1	73.1	81.0	120.1	141.0	147.1	93.0	1115.5
17 1990	113.2	122.9	103.5	71.9	58.8	42.9	44.7	77.8	85.4	111.0	127.4	155.1	92.7	1112.5
18 1991	159.8	133.5	115.9	78.5	63.0	45.4	64.1	75.8	94.8	115.7	143.3	139.6	102.4	1229.1
19 1992	151.4	111.7	92.7	70.6	50.6	48.6	49.2	62.9	83.6	108.8	132.0	157.8	93.3	1119.7
20 1993	123.7	103.5	100.1	80.4	60.4	45.4	48.1	75.1	69.7	117.2	143.5	151.8	93.2	1117.9
Mean	128.9	103.0	95.1	65.4	44.3	31.2	38.6	55.2	70.1	98.8	116.9	126.3	81.0	971.9

Monthly Mean Evapotranspiration (No. 31)
 St. No. 02652003 Clevelandia
 1974 - 1993 (20 Years)



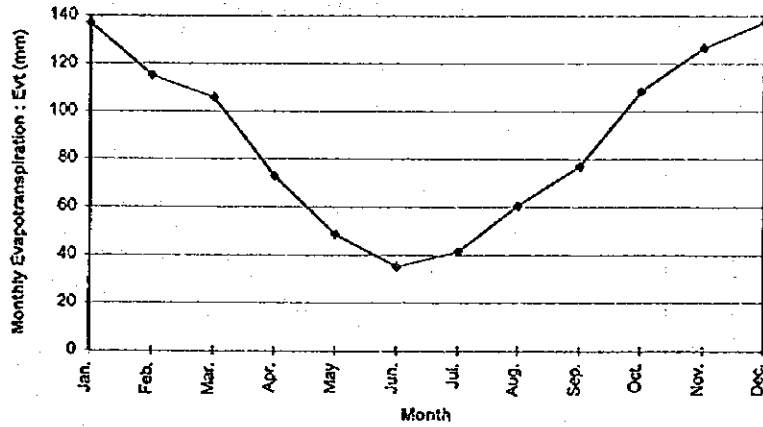
Annual Evapotranspiration (No. 31)
 St. No. 02652003 Clevelandia
 1974 - 1993 (20 Years)



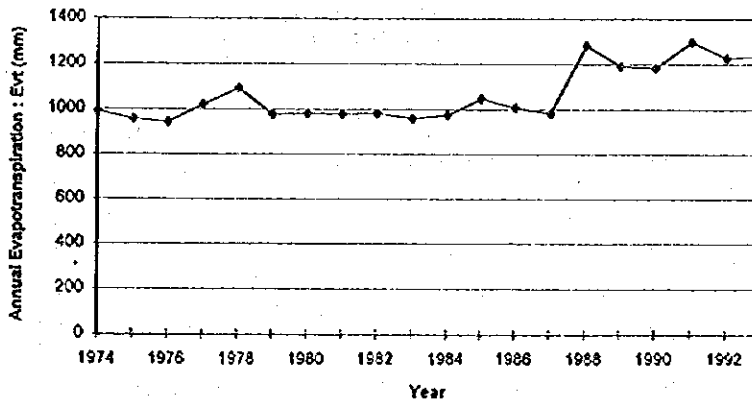
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02652035 (No. 32)
 St. Name Pato Branco

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	123.2	115.1	55.2	71.8	48.9	30.0	38.8	53.5	77.8	108.4	128.2	142.1	82.6	990.6
2 1975	127.5	113.8	100.7	65.8	43.8	33.6	34.4	54.0	65.0	86.7	114.2	118.5	79.8	958.0
3 1976	109.6	113.5	98.9	70.2	41.8	29.5	36.1	52.5	60.7	99.8	113.9	117.3	78.6	943.7
4 1977	108.3	124.2	91.8	67.6	47.6	35.0	44.9	51.8	78.1	112.9	119.4	141.3	85.1	1021.0
5 1978	153.7	125.1	114.4	79.6	48.6	34.0	38.6	50.2	78.1	105.7	118.4	145.1	91.0	1092.5
6 1979	149.8	112.9	106.9	62.6	38.3	30.1	33.3	55.5	68.0	92.2	116.6	112.4	81.5	978.5
7 1980	140.6	111.2	111.0	74.3	43.3	29.8	33.3	49.4	64.3	84.6	118.8	121.2	81.8	981.8
8 1981	127.9	102.0	110.7	68.9	52.4	27.7	33.8	55.1	70.6	96.3	115.2	120.3	81.7	980.4
9 1982	151.4	93.3	107.2	75.7	45.5	27.9	37.6	59.9	77.3	94.2	91.6	125.1	81.9	982.5
10 1983	134.0	108.3	103.7	61.7	40.3	24.7	29.3	52.5	62.2	96.2	114.8	135.5	80.1	961.1
11 1984	124.6	122.9	94.6	61.2	48.6	30.8	37.5	43.8	74.6	117.4	97.3	124.7	81.3	975.9
12 1985	156.2	100.0	97.9	65.6	45.9	31.9	35.1	50.6	67.9	108.9	138.3	149.4	87.2	1046.7
13 1986	144.0	105.5	99.6	66.6	43.0	35.1	36.8	53.1	69.3	108.3	118.1	128.4	84.0	1007.9
14 1987	135.6	96.1	114.6	66.4	35.2	28.8	38.5	48.5	68.3	93.1	126.5	132.7	82.0	984.1
15 1988	150.1	121.7	141.7	75.5	43.6	40.4	65.7	82.5	109.8	133.9	171.2	136.4	106.9	1282.4
16 1989	114.5	110.5	123.4	89.7	60.4	40.6	50.2	78.3	88.3	136.4	149.2	149.6	99.2	1190.8
17 1990	119.4	136.9	107.9	77.8	64.5	44.4	47.9	72.8	87.9	120.1	139.4	164.1	98.6	1183.0
18 1991	173.8	149.1	123.7	87.0	65.5	48.4	55.9	79.5	100.5	124.2	147.0	142.5	108.1	1297.0
19 1992	161.9	122.3	98.8	79.8	51.2	52.9	53.5	71.6	93.2	123.0	141.8	177.8	102.3	1227.7
20 1993	133.6	117.5	113.3	90.0	69.4	49.6	48.6	89.9	79.0	127.5	154.0	161.3	102.8	1233.6
Mean	136.9	115.0	105.8	72.9	48.8	35.3	41.5	60.5	77.0	108.4	126.7	137.3	88.8	1066.0

Monthly Mean Evapotranspiration (No. 32)
 St. No. 02652035 Pato Branco
 1974 - 1993 (20 Years)



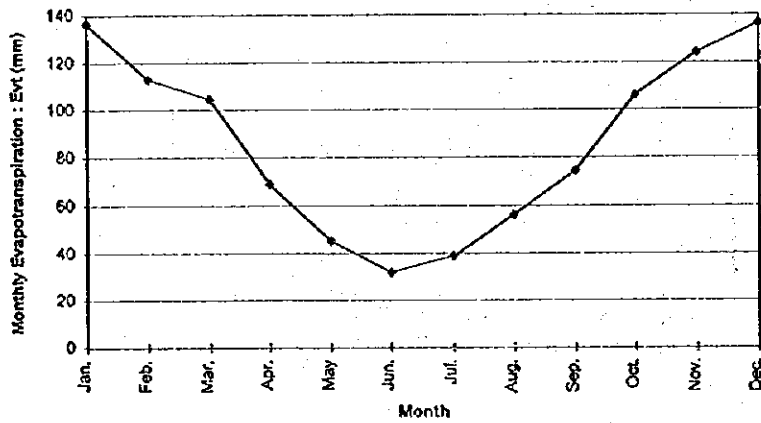
Annual Evapotranspiration (No. 32)
 St. No. 02652035 Pato Branco
 1974 - 1993 (20 Years)



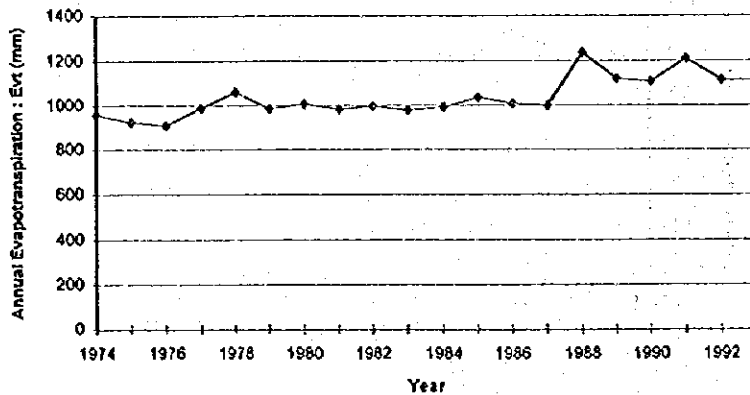
Monthly Evapotranspiration Table Period 1974 - 1993 (20 years)
 St. No. 02653012 (No.33)
 St. Name Francisco

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean	Total
1 1974	120.7	112.6	52.4	69.1	45.7	27.1	35.9	50.7	75.0	103.8	125.7	139.7	79.8	953.0
2 1975	124.9	111.2	98.0	63.0	40.9	30.7	31.5	51.2	62.2	84.0	111.6	116.0	77.1	925.2
3 1976	107.0	110.9	95.3	67.4	38.9	26.6	33.2	49.7	57.9	97.1	111.3	114.7	75.9	910.9
4 1977	103.7	121.7	89.2	64.9	44.7	32.0	42.1	48.9	75.4	110.4	116.8	138.8	82.4	983.6
5 1978	151.3	122.6	111.8	76.9	45.8	31.0	35.7	47.4	75.4	103.1	115.8	143.6	82.4	1060.3
6 1979	156.3	112.5	110.3	62.7	39.1	28.8	32.4	54.0	67.4	92.2	116.6	113.6	82.2	955.6
7 1980	144.1	111.9	111.3	75.3	42.7	29.1	33.8	50.9	64.1	95.3	116.2	131.1	83.8	1065.9
8 1981	128.8	101.0	112.7	66.1	51.5	27.5	34.9	54.5	69.8	97.7	117.7	121.5	82.0	983.6
9 1982	155.7	55.9	110.4	75.0	44.5	27.6	37.7	56.5	77.3	95.6	91.8	127.9	83.0	965.9
10 1983	133.4	106.3	105.6	62.3	40.6	24.8	29.3	62.5	63.5	102.5	114.6	144.3	81.6	979.4
11 1984	130.9	127.3	95.3	60.4	45.8	30.7	38.7	42.9	75.3	116.7	103.4	127.0	82.7	992.2
12 1985	157.4	98.5	100.5	65.6	44.5	30.5	34.2	47.7	65.8	105.8	137.6	147.8	86.3	1038.1
13 1986	141.6	102.0	102.3	64.5	41.4	34.3	36.2	52.8	71.3	105.7	123.0	133.6	84.0	1008.4
14 1987	138.2	99.7	115.8	64.1	35.1	27.7	38.2	49.7	69.4	94.0	130.0	137.7	83.3	999.7
15 1988	146.0	119.5	137.9	72.3	43.1	42.7	55.7	82.2	107.2	132.8	168.1	127.9	103.0	1235.5
16 1989	111.0	107.9	113.7	77.0	54.4	37.8	47.3	65.2	81.3	127.9	143.2	154.8	93.4	1121.4
17 1990	121.5	134.5	105.2	68.8	51.6	37.2	41.8	70.1	82.4	112.7	132.1	151.6	92.5	1109.4
18 1991	164.0	132.7	123.2	78.6	54.7	39.7	55.1	70.3	94.4	119.6	140.5	137.1	100.8	1209.7
19 1992	157.2	116.0	96.0	69.3	45.1	39.4	41.4	59.6	82.6	112.4	131.9	162.8	93.0	1115.8
20 1993	134.8	114.8	105.3	77.7	53.7	36.1	45.1	68.5	71.2	112.9	136.2	155.8	92.9	1115.2
Mean	136.4	113.1	104.6	69.0	45.2	32.1	39.0	56.3	74.5	106.1	124.3	136.4	85.4	1036.9

Monthly Mean Evapotranspiration (No. 33)
 St. No. 02653012 Francisco
 1974 - 1993 (20 Years)

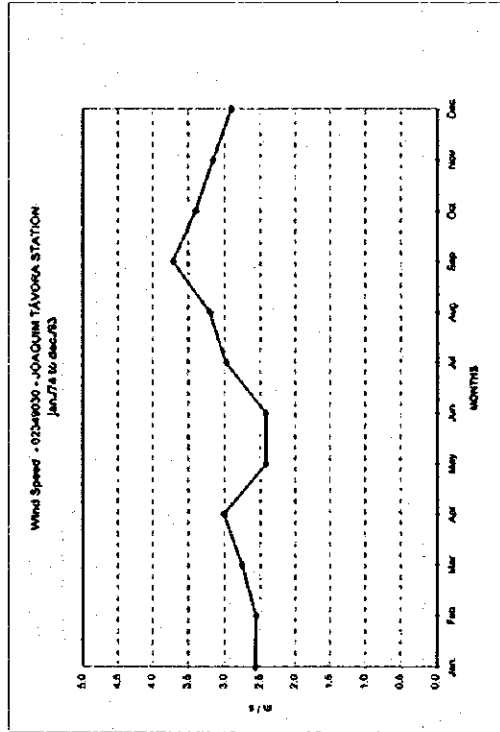


Annual Evapotranspiration (No. 33)
 St. No. 02653012 Francisco
 1974 - 1993 (20 Years)



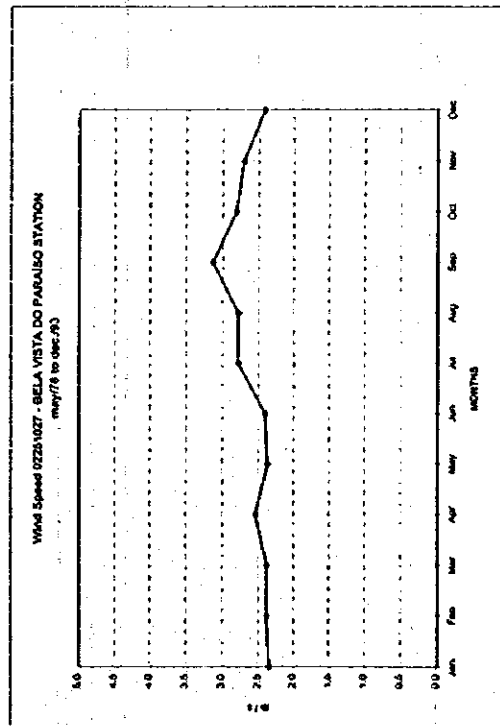
Wind Speed and Direction
02249030 - JOAQUIM TAVORA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	1.4	1.3	1.6	1.4	0.9	1.3	0.9	1.3	2.4	1.2	2.5	2.2	2.2
1975	2.2	0.8	2.0	1.4	1.4	1.8	1.8	2.3	3.6	2.0	2.7	2.2	2.1
1976	2.4	2.2	2.0	2.0	2.3	1.9	2.7	0.7	2.4	3.8	3.1	3.5	2.7
1977	2.6	2.1	2.5	3.3	2.0	2.3	2.0	3.9	4.0	4.6	4.6	4.0	3.2
1978	2.6	4.2	3.3	5.4	4.8	5.1	5.3	5.8	6.0	5.6	6.0	5.1	5.1
1979	5.2	5.6	6.3	4.0	3.6	3.2	2.8	3.2	2.8	2.8	2.2	2.2	4.0
1980	2.7	2.8	3.5	3.3	1.8	2.0	2.0	3.5	3.7	3.9	4.0	2.1	2.9
1981	2.2	2.8	3.3	3.1	2.4	2.1	2.5	2.8	2.6	3.7	2.3	2.9	2.7
1982	3.3	1.7	2.4	3.5	2.3	1.7	1.8	2.0	4.2	2.4	2.4	2.0	2.6
1983	1.9	2.5	3.4	2.8	2.1	1.5	3.1	3.7	4.4	4.7	2.1	3.1	2.9
1984	2.0	2.2	3.7	3.7	1.6	2.5	3.5	4.4	3.0	3.9	3.4	2.8	3.1
1985	3.0	2.0	2.3	2.3	2.1	2.5	3.7	3.0	3.4	3.0	2.0	2.4	2.6
1986	1.8	1.8	2.3	2.3	1.9	2.4	3.4	2.5	3.7	3.2	2.0	1.7	2.4
1987	1.6	2.4	2.8	2.8	2.2	1.8	2.2	3.2	4.1	2.7	2.9	2.4	2.6
1988	1.7	2.8	2.1	2.6	1.8	3.5	3.3	2.6	3.1	3.1	3.1	2.7	2.7
1989	2.2	2.1	2.1	2.1	3.1	2.7	3.1	2.9	3.2	4.0	3.2	4.2	2.9
1990	3.2	3.6	3.2	2.6	3.5	3.0	3.7	4.8	4.4	4.0	3.1	3.5	3.6
1991	3.4	2.7	3.1	3.2	3.0	2.9	3.4	3.8	4.3	3.8	3.5	2.3	3.3
1992	3.4	3.0	2.5	3.2	2.7	3.0	4.8	4.4	4.5	3.7	3.7	3.6	3.6
1993	2.4	2.5	2.7	2.5	2.2	1.6	1.9	2.2	3.1	2.6	3.2	4.3	2.6
Mean	2.6	2.6	2.8	3.0	2.4	2.4	3.0	3.2	3.7	3.4	3.2	2.9	2.9
Direction	E	E	E	E	E	E	E	E	E	E	E	E	E



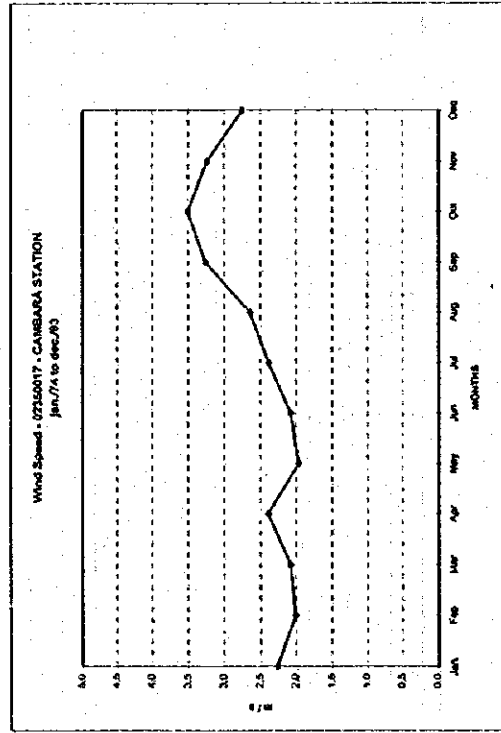
Wind Speed and Direction
02251027 - BELA VISTA DO PARAISO STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1975	2.6	2.1	2.1	2.4	2.1	2.6	3.3	2.1	2.7	2.2	3.4	2.0	2.3
1976	3.1	3.7	3.4	3.1	2.8	3.3	3.0	3.1	3.3	2.9	2.4	2.0	2.8
1977	2.1	2.4	2.9	2.5	2.1	1.9	1.7	1.9	1.5	1.3	1.4	1.5	1.9
1978	1.5	1.4	1.4	1.8	1.4	1.3	1.4	1.5	1.5	1.4	1.4	1.4	1.4
1979	1.4	1.6	1.7	1.2	1.4	1.3	1.6	1.8	1.9	1.8	1.1	1.3	1.5
1980	1.4	1.4	1.4	1.7	1.4	1.2	1.5	2.0	1.8	1.6	1.7	1.3	1.8
1981	1.7	1.8	1.6	2.7	2.3	2.8	4.0	3.6	4.1	3.5	3.8	3.3	2.9
1982	2.8	2.9	3.1	4.1	3.1	3.4	4.7	3.4	5.1	4.2	4.7	3.3	3.7
1983	2.8	3.9	3.6	3.7	3.5	3.1	3.8	4.8	4.9	3.8	4.2	3.4	3.8
1984	3.5	4.3	3.8	3.4	3.0	3.5	3.8	3.5	3.9	3.9	4.1	3.5	3.7
1985	2.9	2.7	2.8	3.2	3.8	3.1	3.8	4.0	4.0	3.4	3.8	3.5	3.5
1986	3.3	2.5	2.6	2.7	3.1	3.0	3.3	4.0	4.0	3.0	2.2	2.8	3.0
1987	2.3	2.2	2.0	2.5	2.3	2.2	2.7	2.5	2.9	2.6	2.5	1.9	2.5
1988	2.2	1.8	1.7	1.7	1.7	2.0	2.6	2.7	2.4	2.5	2.7	2.0	2.2
1989	1.5	1.6	1.6	2.0	2.2	1.9	1.6	2.1	2.9	2.7	2.2	2.5	2.0
Mean	2.4	2.4	2.4	2.5	2.4	2.4	2.8	2.8	3.1	2.8	2.7	2.4	2.6
Direction	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE



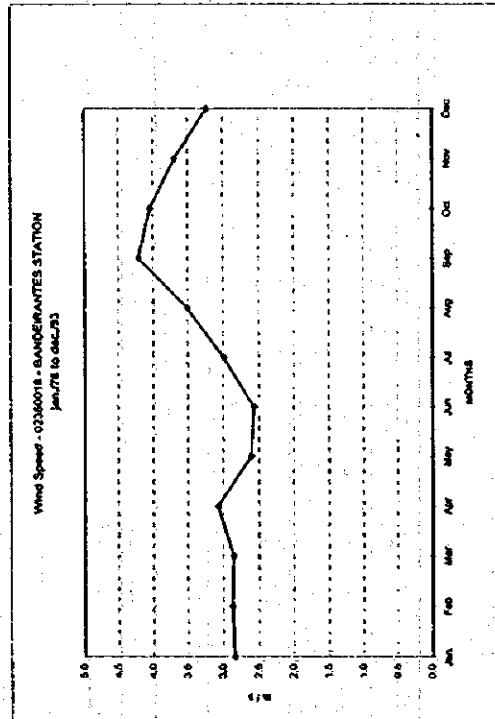
Wind Speed and Direction
02350017 - CAMBARA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	1.3	2.2	1.5	1.8	1.2	1.4	1.4	2.3	2.4	2.4	2.7	2.7	1.9
1975	2.1	1.1	1.3	1.7	2.2	1.3	0.6	1.1	2.2	1.2	1.2	2.3	1.6
1976	0.8	0.8	0.3	0.3	0.4	0.9	0.9	0.9	0.8	2.6	0.8	1.0	0.9
1977	0.9	0.5	0.7	3.1	1.8	1.7	2.0	3.0	3.0	3.9	2.8	3.1	2.2
1978	2.5	2.3	2.0	2.5	1.8	1.1	2.0	3.3	3.8	3.1	3.8	2.2	2.4
1979	3.4	2.3	3.1	1.8	2.8	2.8	2.8	2.7	3.2	3.7	3.6	2.9	2.9
1980	2.8	2.3	1.6	2.4	1.9	2.3	2.6	3.2	3.4	4.4	4.5	2.6	2.8
1981	2.2	2.4	3.0	2.8	2.3	2.1	2.7	2.9	3.3	3.7	3.3	3.2	2.8
1982	2.0	2.1	2.8	3.2	2.5	2.2	2.1	2.5	3.9	3.5	3.0	2.4	2.7
1983	2.1	2.5	3.1	2.1	2.3	1.9	2.6	3.1	3.7	4.0	2.1	3.6	2.8
1984	2.3	2.1	3.1	3.0	1.8	2.3	3.3	3.8	2.9	4.0	4.0	2.8	3.0
1985	3.1	2.0	2.0	2.5	2.1	1.8	3.1	2.8	4.2	3.6	4.0	3.3	2.9
1986	2.8	2.1	2.3	2.8	2.2	2.0	2.9	2.4	4.2	3.9	3.8	2.4	2.8
1987	2.1	2.3	2.2	2.6	2.4	2.2	2.4	3.2	3.6	3.3	3.5	2.9	2.8
1988	2.1	2.4	2.3	2.8	1.7	2.0	3.0	2.8	4.0	4.1	4.3	3.1	2.9
1989	2.6	2.2	2.1	2.3	2.3	2.3	2.5	3.2	3.6	4.1	3.4	3.7	2.9
1990	2.4	2.2	2.2	2.1	2.1	2.1	2.3	2.5	3.1	3.1	3.6	2.6	2.6
1991	2.6	2.4	2.8	2.5	2.3	2.2	2.2	3.0	3.4	3.6	3.6	2.8	2.8
1992	2.7	2.5	2.3	2.3	2.0	2.5	2.6	2.7	3.3	3.2	3.6	3.0	2.8
1993	2.1	1.8	1.9	1.9	2.5	2.2	2.1	2.1	3.0	3.1	2.9	3.1	2.4
Mean	2.3	2.0	2.1	2.4	2.0	2.1	2.4	2.6	3.3	3.5	3.2	2.8	2.5
Direction	E	E	E	SE	E	E	E	E	SE	E	E	E	E



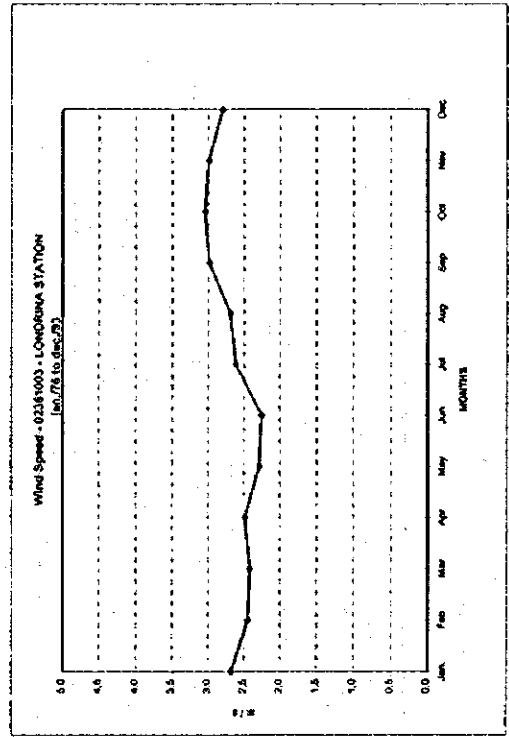
Wind Speed and Direction
02350018 - BAUDERANTES STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1976	2.6	2.6	2.4	3.3	2.3	2.6	3.6	3.4	4.3	5.4	2.9	3.0	3.1
1977	3.0	3.0	2.6	3.3	2.5	2.5	2.3	3.5	4.3	3.6	3.7	4.3	3.3
1978	2.3	4.0	2.7	3.1	2.3	2.4	3.1	3.8	3.7	3.0	3.0	2.7	3.1
1979	3.3	3.1	2.9	3.2	1.7	1.8	1.8	1.7	3.0	2.8	2.8	2.5	2.5
1980	1.5	2.4	2.1	2.8	2.2	2.5	2.7	3.5	4.7	4.7	4.9	2.6	3.1
1981	3.1	2.9	3.9	3.0	3.6	2.8	3.2	3.8	4.1	4.3	3.8	3.7	3.6
1982	3.7	2.4	3.0	3.9	3.1	2.8	2.4	3.7	4.2	4.4	3.3	2.6	3.0
1983	2.2	3.0	2.9	2.4	2.7	2.0	2.4	3.7	4.2	4.4	3.8	2.8	3.0
1984	1.5	1.9	2.9	3.1	1.5	2.4	3.3	4.6	3.1	4.8	3.8	2.8	3.0
1985	3.7	2.3	2.1	2.9	2.1	2.1	3.4	3.8	6.3	6.7	6.6	5.9	3.6
1986	5.0	4.7	3.5	4.3	3.4	3.1	4.3	3.7	5.0	4.5	4.8	3.5	4.2
1987	3.4	3.9	3.5	3.7	3.2	3.1	3.5	4.4	4.7	3.3	3.5	2.9	3.6
1988	2.7	3.0	3.0	3.3	2.2	2.5	3.9	3.4	4.5	3.6	3.5	3.4	3.3
1989	2.7	2.4	2.6	2.8	3.6	2.9	3.0	3.7	4.2	4.4	3.8	4.2	3.4
1990	2.5	2.6	2.6	2.8	2.8	2.4	2.6	3.4	3.9	3.9	3.7	3.5	3.0
1991	3.1	2.7	3.6	3.0	3.0	2.8	2.5	3.3	4.0	3.7	3.2	2.1	3.1
1992	2.6	2.7	2.1	1.9	2.0	2.6	3.2	3.7	3.7	3.5	3.8	3.1	2.9
1993	2.5	2.2	2.4	2.5	2.9	3.2	2.7	3.2	3.6	3.4	3.5	3.6	3.0
Mean	2.8	2.9	3.1	2.8	2.6	2.8	3.0	3.5	4.2	4.0	3.7	3.2	3.2
Direction	SE	SE	SE	SE	SE	E	SE	SE	SE	SE	SE	SE	SE



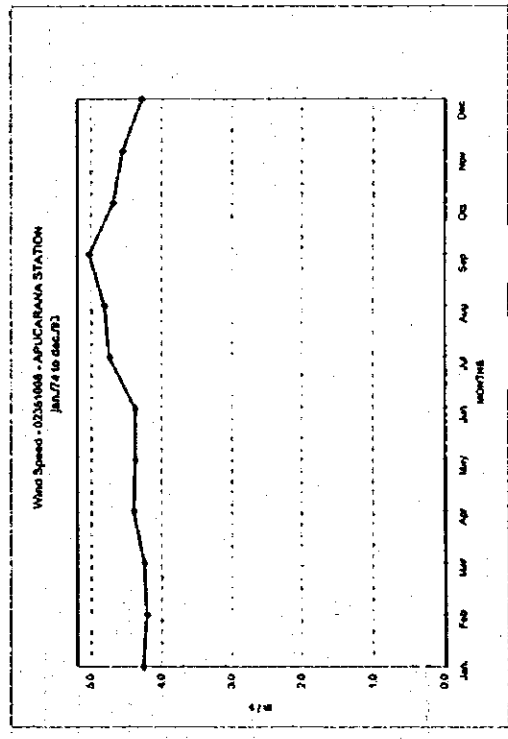
Wind Speed and Direction
02351003 - LONORINA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1976	2.9	1.8	2.6	2.7	2.5	2.1	3.0	3.1	2.3	4.4	2.9	3.0	2.8
1977	2.9	2.6	2.6	3.3	2.5	2.2	2.9	3.4	3.0	3.1	3.1	3.0	2.9
1978	3.0	2.6	2.6	2.3	2.2	2.2	2.6	2.7	3.3	3.1	3.3	2.9	2.7
1979	3.3	2.5	2.4	2.9	2.2	2.0	2.4	2.3	3.1	2.8	3.0	2.8	2.6
1980	2.7	2.8	2.6	2.7	2.2	2.5	2.5	2.7	3.2	3.1	3.3	2.8	2.7
1981	2.5	2.6	2.7	2.6	2.5	2.5	3.0	2.8	3.3	2.9	2.8	2.7	2.7
1982	3.0	2.3	2.7	2.9	2.5	2.7	2.2	2.4	3.3	3.3	2.9	2.9	2.8
1983	2.4	2.6	2.6	2.3	2.6	2.7	1.9	2.7	3.1	3.4	2.5	2.6	2.6
1984	2.5	2.3	2.7	2.7	1.9	2.2	2.7	3.1	2.9	3.1	3.0	2.5	2.6
1985	2.6	2.2	2.3	2.5	1.9	2.1	2.6	2.6	3.1	2.7	3.1	2.6	2.6
1986	2.5	2.4	2.1	2.5	2.2	2.0	2.6	2.3	3.1	3.0	3.3	2.5	2.5
1987	2.4	2.9	2.4	2.3	2.4	2.0	2.4	2.9	3.0	2.7	3.0	2.7	2.6
1988	2.5	2.4	2.4	2.6	1.9	2.9	3.0	2.8	3.2	3.3	3.6	2.9	2.8
1989	2.8	2.3	1.9	2.0	2.5	2.2	2.4	2.9	2.8	3.0	3.0	3.2	2.6
1990	2.7	2.0	2.2	2.6	2.2	2.0	2.6	2.7	2.6	2.6	2.4	2.7	2.6
1991	2.5	2.5	2.6	2.3	2.1	2.2	2.4	2.7	2.9	3.1	2.9	2.9	2.6
1992	2.6	2.4	2.2	2.2	2.2	2.4	2.8	2.3	2.6	2.6	2.9	2.6	2.5
1993	2.2	2.1	2.1	2.0	2.7	2.1	2.1	2.0	2.6	2.6	2.9	2.4	2.4
Mean	2.7	2.5	2.4	2.5	2.3	2.3	2.6	2.7	3.0	3.1	3.0	2.8	2.6
Direction	E	E	E	E	E	E	E	E	E	E	E	E	E



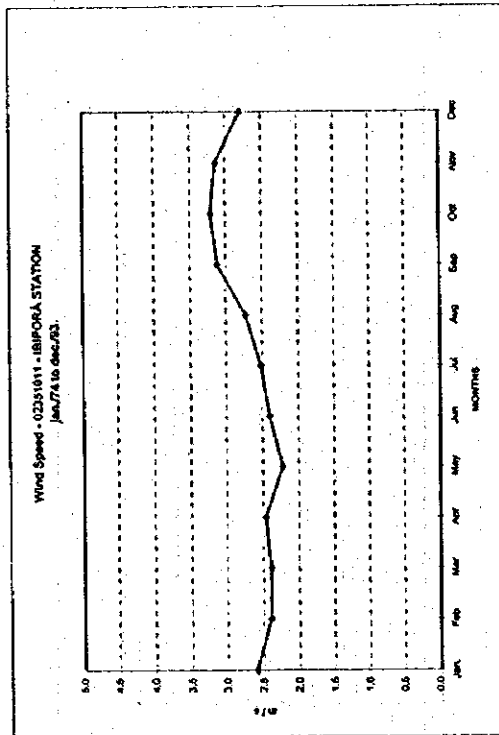
Wind Speed and Direction
02351008 - APICARANA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	4.1	3.9	4.0	4.2	3.4	4.3	4.0	4.1	3.9	4.1	4.1	4.6	4.1
1975	4.6	4.7	4.6	4.4	5.0	4.0	4.7	5.4	5.0	3.9	5.1	4.3	4.7
1976	4.6	4.0	4.3	4.1	4.5	3.8	3.7	5.3	3.8	5.1	4.4	4.1	4.5
1977	4.9	4.5	4.2	5.1	4.1	4.8	5.5	4.9	4.8	5.0	5.0	5.3	4.6
1978	4.9	4.6	4.7	4.1	4.2	4.7	5.6	5.3	6.0	5.0	5.5	4.8	5.0
1979	5.7	4.4	4.6	4.3	4.5	4.2	4.9	4.8	4.8	4.9	4.3	4.1	4.7
1980	4.7	4.4	3.4	4.7	4.5	4.5	4.5	5.1	5.9	4.8	4.5	3.7	4.5
1981	3.5	4.1	4.1	4.9	5.2	4.4	5.0	5.0	5.4	4.8	4.4	4.8	4.5
1982	4.6	4.0	4.3	5.0	4.8	4.5	4.6	4.4	4.8	4.7	4.2	3.7	4.5
1983	3.4	4.2	4.4	3.8	4.3	3.6	4.4	4.5	5.2	5.3	3.7	3.6	4.2
1984	3.3	4.2	4.5	4.3	3.6	4.1	5.0	5.0	4.6	4.6	4.2	4.1	4.3
1985	4.5	4.2	3.8	4.0	3.8	4.2	5.2	4.8	4.8	4.6	4.6	4.0	4.4
1986	3.6	3.9	4.0	4.0	4.0	4.0	4.7	4.3	5.1	4.1	5.0	4.3	4.4
1987	3.7	4.6	4.4	4.4	4.9	3.9	4.6	4.6	5.2	4.1	4.4	3.9	4.4
1988	4.0	4.4	4.2	4.4	3.4	4.4	3.0	4.7	5.1	4.9	4.7	4.5	4.3
1989	4.7	4.2	3.7	4.1	4.8	4.2	4.6	5.4	4.8	5.0	4.7	4.8	4.6
1990	4.5	4.0	4.2	4.2	4.6	3.9	4.5	5.3	5.3	4.8	4.5	4.5	4.5
1991	4.3	3.9	4.6	5.0	4.6	5.0	5.3	5.1	5.4	4.7	4.3	4.3	4.7
1992	3.6	4.4	4.8	4.6	4.6	4.9	4.9	4.6	4.9	4.3	4.6	4.3	4.4
1993	4.0	4.0	3.8	4.1	4.9	4.4	3.7	3.8	4.8	5.0	4.1	4.3	4.3
Mean	4.3	4.2	4.3	4.4	4.4	4.4	4.7	4.8	5.0	4.7	4.6	4.5	4.5
Direction	E	E	E	E	E	E	E	E	E	E	E	E	E



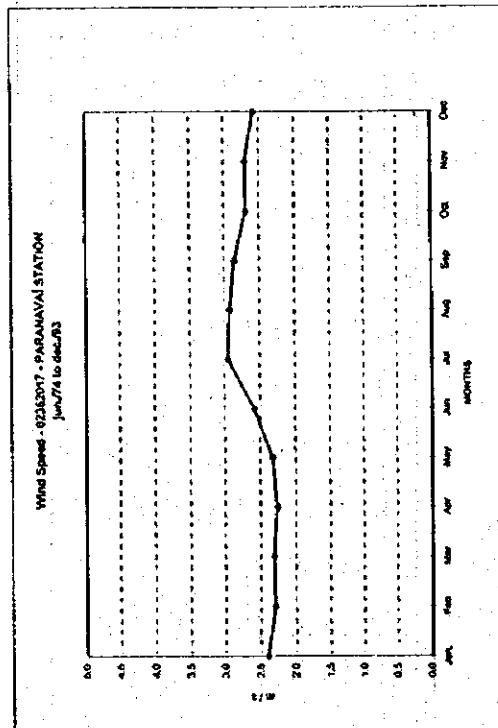
Wind Speed and Direction
02351011 - IBIPORA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	1.3	1.1	1.3	1.3	1.1	1.8	1.2	1.8	1.2	2.1	2.1	3.1	3.4
1975	2.3	2.4	2.7	2.0	2.3	2.5	2.6	2.7	3.0	2.6	3.2	2.8	2.6
1976	3.0	2.4	2.5	2.5	2.2	2.1	2.4	2.4	1.9	3.2	2.0	1.7	2.4
1977	2.0	2.4	1.8	1.8	1.6	2.0	1.7	2.4	2.1	3.5	3.0	2.6	2.3
1978	2.3	2.4	2.0	1.7	1.2	2.1	1.6	3.5	4.3	3.9	3.8	3.1	2.7
1979	3.8	2.8	2.6	3.0	2.6	2.3	2.8	2.8	2.7	3.5	3.5	3.2	3.0
1980	3.3	3.1	2.3	2.7	2.3	2.7	2.7	3.7	3.5	3.6	3.6	2.9	3.0
1981	2.5	2.7	3.2	2.8	2.7	2.7	3.4	3.0	3.4	3.2	3.1	2.9	3.0
1982	3.1	2.4	2.9	3.4	2.7	2.8	2.4	2.3	3.3	3.3	3.2	3.0	2.9
1983	2.4	2.6	3.0	2.3	2.8	2.2	2.7	2.8	3.8	4.3	2.6	2.8	2.8
1984	2.7	2.2	3.0	3.0	2.1	2.0	3.2	3.3	3.0	3.3	3.0	2.1	2.8
1985	3.0	2.7	2.4	2.8	1.9	2.2	3.0	2.7	2.8	3.3	3.1	3.1	3.0
1986	2.8	2.6	2.3	2.9	2.3	2.1	2.9	2.8	3.2	3.2	3.6	2.8	2.5
1987	2.4	2.7	2.5	2.7	2.8	2.1	2.3	2.9	3.3	2.9	3.0	2.6	2.7
1988	2.7	2.4	2.4	2.6	2.0	4.4	3.0	2.8	3.5	3.4	3.9	2.8	3.0
1989	2.6	2.2	1.9	2.2	2.7	2.6	2.5	2.9	3.0	3.3	3.2	3.1	2.7
1990	2.4	2.4	2.3	2.5	2.4	2.2	2.5	2.8	3.0	2.9	2.7	2.9	2.5
1991	2.8	2.8	2.7	2.2	2.2	2.3	2.5	2.9	2.8	3.0	3.2	2.4	2.6
1992	2.6	2.3	2.3	2.4	2.3	2.0	2.6	2.5	2.7	2.8	3.1	2.5	2.5
1993	2.3	2.0	2.7	2.0	2.5	2.7	2.0	2.1	2.7	2.9	3.0	3.1	2.4
Mean	2.6	2.4	2.4	2.5	2.2	2.4	2.5	2.7	3.1	3.2	3.1	2.8	2.7
Direction	SE	SE	SE	SE	SE	S	SE	SE	SE	SE	SE	SE	SE



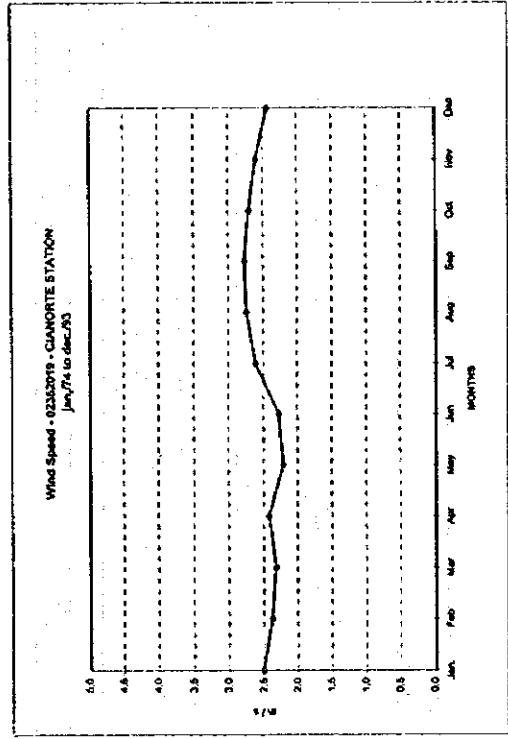
Wind Speed and Direction
02352017 - PARANAVALI STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	2.1	1.6	1.9	2.0	2.1	3.5	3.0	3.3	3.0	2.7	3.0	2.9	3.1
1975	3.0	2.0	2.8	2.8	2.8	2.6	2.5	2.6	2.8	2.3	2.0	1.9	2.2
1976	1.8	1.8	1.8	1.4	1.3	1.1	2.4	2.4	1.6	2.9	2.4	2.2	1.9
1977	2.1	2.2	1.6	1.7	1.5	2.0	2.9	2.1	1.8	1.6	1.7	2.4	1.9
1978	1.8	1.6	3.0	1.6	2.4	2.1	3.3	3.2	3.0	2.2	2.9	1.7	2.5
1979	2.0	2.2	2.5	2.7	2.9	2.8	3.6	3.4	3.7	3.7	3.7	3.0	3.0
1980	3.4	3.5	2.6	3.1	3.1	3.5	3.2	3.4	3.5	3.2	2.9	2.9	3.2
1981	3.0	3.0	2.6	2.6	3.0	2.8	3.5	3.0	3.4	3.1	2.9	3.1	3.0
1982	3.8	2.8	2.8	2.9	3.3	3.6	3.5	3.3	3.3	3.2	3.2	3.2	3.2
1983	2.6	3.0	3.2	2.8	3.0	2.6	3.4	3.4	3.6	3.3	3.1	3.8	3.2
1984	2.7	2.3	3.3	3.0	2.4	2.9	3.1	3.4	2.8	3.1	2.7	2.5	2.8
1985	2.7	2.3	2.3	2.7	2.4	2.4	2.6	2.7	3.1	2.7	3.0	2.7	2.8
1986	2.8	2.2	2.3	2.6	2.4	2.4	2.8	2.7	3.1	2.6	3.3	2.4	2.6
1987	2.5	2.6	2.6	2.4	2.5	2.8	3.2	2.8	3.0	3.3	2.7	2.5	2.7
1988	2.4	2.0	2.3	2.3	2.0	3.6	3.3	2.8	2.9	3.3	2.9	2.6	2.7
1989	2.4	2.1	1.7	1.7	2.3	2.6	2.7	3.9	2.4	2.5	2.3	2.5	2.3
1990	2.1	1.9	2.1	2.1	1.9	1.9	1.8	2.1	2.8	2.2	2.2	2.4	2.2
1991	2.2	1.8	1.8	2.0	2.0	2.3	2.3	2.8	2.8	2.3	2.2	2.2	2.1
1992	2.1	2.1	2.0	1.8	2.2	2.5	2.4	2.3	2.0	2.4	2.4	2.0	2.1
1993	1.7	1.8	1.5	1.8	2.4	2.1	2.3	2.0	2.4	2.2	2.3	2.4	2.1
Mean	2.4	2.3	2.3	2.3	2.3	2.6	3.0	2.8	2.9	2.7	2.7	2.0	2.6
Direction	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE



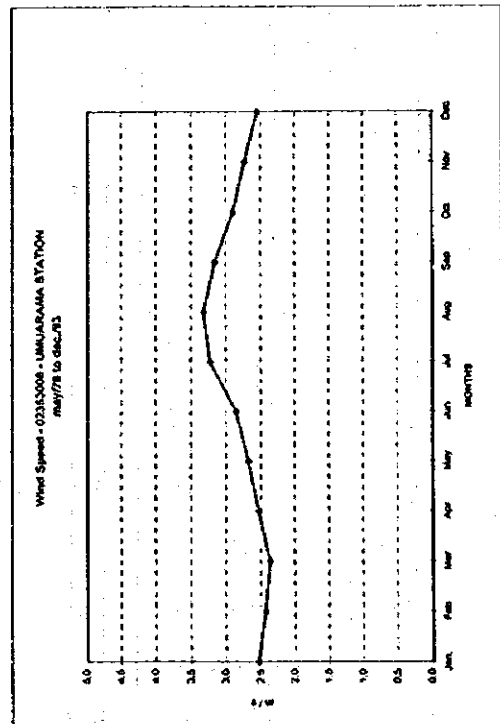
Wind Speed and Direction
0232019 - CIAMORTE STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	2.8	2.4	2.5	3.0	2.5	3.1	2.8	3.2	3.2	3.3	4.4	4.2	3.1
1975	3.6	3.5	3.7	3.6	4.0	4.0	3.6	4.3	4.3	3.7	3.1	2.3	3.7
1976	2.9	2.6	1.7	1.8	1.7	1.4	2.0	3.7	3.2	3.3	2.7	1.9	2.4
1977	3.1	2.7	2.9	2.8	2.1	2.4	4.1	4.4	3.6	3.0	2.8	3.8	3.0
1978	5.0	3.5	3.1	3.1	3.1	3.6	3.4	3.9	3.6	3.2	3.1	2.3	3.2
1979	2.4	2.5	2.4	2.7	2.6	2.4	2.4	2.6	2.7	2.8	2.7	2.6	2.6
1980	2.7	2.4	2.1	2.3	2.1	2.5	2.5	2.5	2.9	3.1	2.7	2.6	2.6
1981	2.5	2.4	2.4	2.4	2.2	2.3	2.3	2.6	3.0	2.8	2.5	2.5	2.5
1982	2.5	2.1	2.1	2.3	2.4	2.5	2.4	2.4	2.7	2.7	2.8	2.6	2.5
1983	2.1	2.5	2.2	2.2	2.2	2.2	2.6	2.6	2.7	2.9	1.7	1.8	2.3
1984	2.5	2.2	2.5	2.5	2.5	2.2	0.3	0.3	0.3	0.3	0.3	0.3	1.0
1985	2.1	2.2	2.2	2.2	2.1	2.4	2.7	2.9	2.9	2.9	2.6	2.6	2.6
1986	3.6	2.4	2.1	2.1	2.1	3.0	2.4	2.1	2.9	2.8	3.0	2.3	2.4
1987	2.4	2.6	2.3	2.4	2.5	2.1	2.7	2.6	2.7	2.4	2.4	2.4	2.5
1988	2.1	1.9	2.2	2.1	1.9	2.4	2.8	2.5	2.5	3.1	2.7	2.6	2.4
1989	2.3	2.2	1.8	2.1	2.2	2.0	2.6	2.6	2.3	2.7	2.5	2.4	2.3
1990	2.3	2.1	2.0	2.1	2.0	2.1	2.2	2.6	2.7	2.5	2.4	2.6	2.3
1991	2.3	2.0	2.3	2.2	2.0	2.4	2.4	2.4	2.5	3.6	3.4	2.4	2.4
1992	2.2	2.2	2.0	1.8	1.8	2.1	2.0	2.3	2.4	3.1	2.5	2.0	2.1
1993	1.6	1.9	1.8	1.9	2.4	2.0	2.4	2.1	2.3	2.4	2.5	2.5	2.2
Mean	2.5	2.4	2.3	2.4	2.2	2.3	2.6	2.7	2.8	2.7	2.8	2.4	2.5
Direction	E	E	E	E	E	E	E	E	E	E	E	E	E



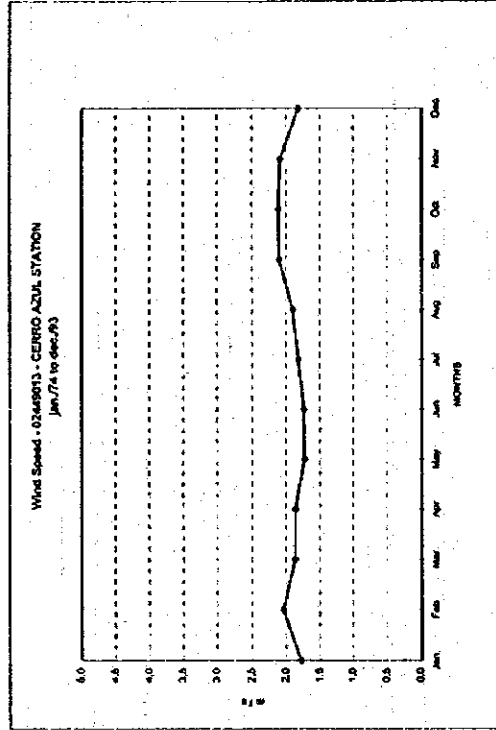
Wind Speed and Direction
0232008 - UNUARAMA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1975	3.1	2.4	2.4	2.6	3.0	3.4	4.0	4.0	3.7	3.7	3.7	3.7	3.4
1976	3.3	2.9	2.6	3.5	2.9	3.6	3.4	3.2	4.6	3.6	3.1	2.9	3.2
1985	2.3	2.7	2.4	2.8	2.9	3.0	3.6	3.6	3.0	2.9	2.7	3.0	3.0
1982	3.2	3.1	2.2	2.7	3.0	3.1	3.5	3.2	3.4	3.6	2.9	2.9	3.0
1983	2.4	3.1	3.1	2.9	3.8	3.2	4.4	4.1	3.4	3.6	2.4	2.9	3.3
1984	2.9	2.6	3.3	3.1	3.2	3.4	4.4	3.6	3.5	3.5	3.4	2.7	3.1
1985	2.6	2.8	2.9	3.2	3.0	3.5	4.2	3.9	3.1	2.9	2.8	2.8	3.1
1986	2.5	2.0	2.1	2.3	2.4	3.2	2.5	2.4	3.4	3.1	3.4	2.3	2.8
1987	2.4	2.4	2.4	2.3	2.7	2.8	3.9	3.4	3.1	1.9	2.3	2.2	2.8
1988	1.7	1.6	2.1	1.9	1.5	2.1	2.6	3.7	3.2	2.5	2.5	2.2	2.3
1989	2.2	1.6	1.4	1.5	1.6	1.7	2.9	4.4	3.0	2.8	2.2	2.3	2.3
1990	2.4	2.1	2.4	2.5	2.3	2.5	2.5	3.1	3.0	2.4	2.5	2.2	2.5
1991	2.4	2.1	1.9	2.4	2.4	2.8	2.9	2.4	2.5	2.5	2.1	2.3	2.4
1992	1.7	2.8	2.3	2.3	3.0	3.2	2.5	2.8	2.2	2.3	2.4	2.1	2.4
1993	2.1	1.8	1.8	1.9	2.6	2.5	2.8	2.2	2.5	2.4	2.2	2.1	2.3
Mean	2.5	2.4	2.4	2.5	2.7	2.9	3.2	3.3	3.2	2.9	2.7	2.6	2.8
Direction	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE



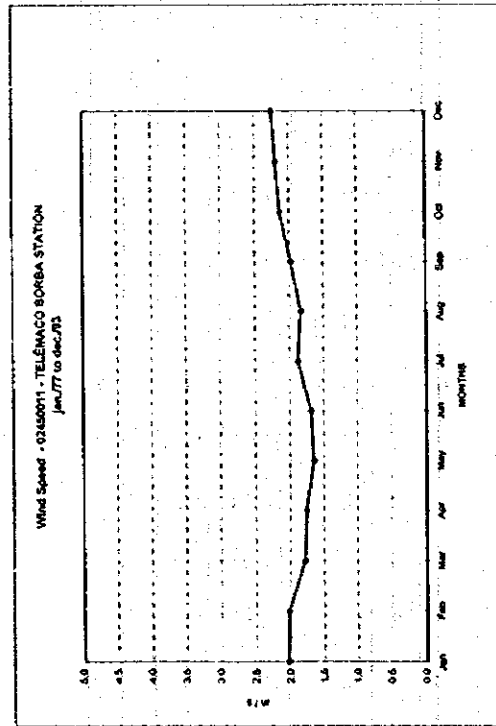
Wind Speed and Direction
02440013 - CERRO AZUL STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	2.5	2.6	2.4	2.2	2.1	1.8	1.8	1.7	2.5	2.5	2.4	2.3	2.2
1975	2.4	2.3	2.4	2.2	2.0	1.9	1.9	2.3	2.6	2.4	2.4	2.0	2.1
1976	2.1	1.9	1.8	1.7	1.6	1.7	1.9	1.8	1.9	2.1	2.1	1.9	1.9
1977	1.7	1.6	1.6	1.8	1.8	1.9	1.9	2.1	2.1	2.1	2.1	2.2	1.8
1978	2.1	1.9	1.9	1.9	1.8	1.8	1.8	1.8	2.1	2.1	2.1	2.0	1.8
1979	2.2	1.7	2.0	2.0	1.9	1.9	1.9	2.2	2.3	2.3	1.7	2.0	2.0
1980	1.9	1.9	1.7	1.6	2.0	2.1	2.3	2.2	2.2	2.2	2.3	2.3	2.3
1981	2.8	2.8	2.6	3.0	3.0	2.4	2.3	2.5	2.8	2.8	3.1	2.6	2.8
1982	2.3	2.6	3.2	3.2	2.6	2.6	2.6	2.5	3.1	2.9	2.9	2.7	2.7
1983	1.5	2.5	2.0	1.7	2.1	2.2	2.4	2.5	2.7	3.1	2.6	2.4	2.3
1984	2.9	2.7	1.9	2.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.9
1985	1.9	1.8	1.8	1.5	1.6	1.7	2.0	1.9	2.4	2.4	2.6	2.0	2.0
1986	1.6	1.9	1.7	1.7	1.7	1.8	1.6	2.1	2.3	2.7	2.4	2.3	2.1
1987	1.9	2.5	2.3	2.1	2.1	2.1	2.4	2.8	2.4	2.4	2.7	2.5	2.3
1988	1.7	2.7	1.9	2.1	2.0	2.3	2.4	2.4	2.4	2.9	2.4	1.4	2.2
1989	1.2	1.9	2.1	1.7	1.8	1.6	1.4	1.4	1.5	1.5	1.3	1.3	1.6
1990	1.2	1.7	1.1	1.1	1.1	1.4	1.3	1.6	1.5	1.5	1.1	1.1	1.3
1991	1.1	1.2	1.0	1.1	1.1	1.0	0.9	0.8	1.1	1.1	1.0	0.8	1.0
1992	0.8	1.0	1.1	1.0	1.0	0.9	1.2	1.2	1.2	1.4	1.4	1.3	1.1
1993	0.8	1.2	1.0	1.2	1.2	1.1	1.3	1.2	1.3	1.2	1.5	1.4	1.2
Mean	1.8	2.0	1.9	1.9	1.7	1.7	1.8	1.9	2.1	2.1	2.1	1.8	1.9
Direction	E	E	E	E	E	E	E	E	E	E	E	E	E



Wind Speed and Direction
02450011 - TELENACO BORBA STATION

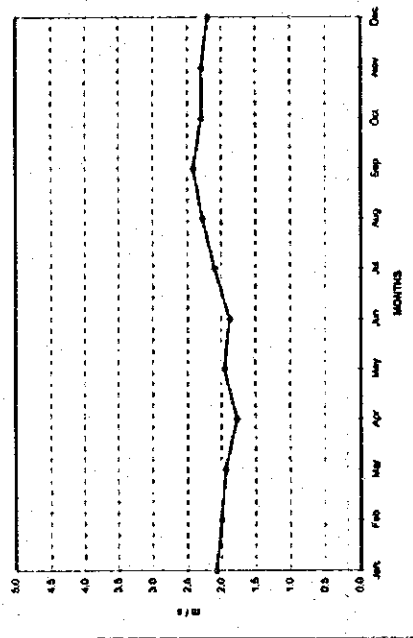
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1977	2.3	1.9	1.2	2.0	1.6	1.6	2.1	2.4	1.9	1.8	2.9	2.7	2.1
1978	2.1	1.9	2.1	2.7	1.2	1.5	1.8	1.5	1.1	2.6	2.9	2.3	2.0
1979	2.6	2.5	2.0	2.0	1.9	1.5	2.0	1.8	2.2	2.3	2.6	2.3	2.1
1980	2.4	2.8	2.0	1.9	1.5	2.1	1.9	2.2	2.5	2.8	2.3	2.3	2.2
1981	2.2	2.0	2.0	1.9	1.9	2.2	1.9	2.5	2.1	2.3	2.5	2.3	2.1
1982	2.1	1.9	1.8	1.6	1.8	2.0	1.8	2.0	2.1	2.0	2.2	2.2	1.9
1983	2.0	2.2	1.9	1.3	1.6	1.5	1.9	1.8	2.3	1.8	2.8	1.9	1.8
1984	2.0	2.0	1.9	1.7	1.4	1.5	1.9	2.1	1.7	2.0	2.0	1.9	1.8
1985	1.7	1.8	1.5	1.6	1.5	1.4	1.8	1.7	2.0	1.9	1.9	1.7	1.7
1986	2.0	1.4	1.6	1.6	1.4	1.4	1.6	1.6	1.9	2.0	2.2	1.8	1.7
1987	1.8	2.2	1.6	1.7	2.0	1.7	2.1	1.8	2.1	1.9	1.9	2.2	1.9
1988	1.8	1.7	1.6	1.7	1.6	1.9	1.9	1.8	2.2	2.3	2.3	2.1	1.9
1989	1.9	2.1	1.6	1.7	1.6	1.8	1.8	1.9	2.3	2.1	2.2	2.4	2.0
1990	1.5	1.5	1.6	1.9	1.7	1.6	1.8	1.8	2.2	2.1	2.0	2.1	1.9
1991	2.0	1.9	2.0	1.7	1.6	1.6	1.9	1.6	2.0	2.1	2.1	2.3	1.9
1992	2.0	2.0	1.9	1.5	1.7	1.7	1.7	1.8	1.8	2.0	1.9	2.0	1.8
1993	1.6	1.9	1.7	1.5	1.7	1.6	1.9	1.6	1.9	2.0	2.2	2.4	1.9
Mean	2.0	2.0	1.8	1.8	1.6	1.7	1.9	1.8	2.0	2.1	2.2	2.2	1.9
Direction	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE



Wind Speed and Direction
02451032 - CÁNDIDO ABREU STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1988	2.1	2.0	2.0	2.0	2.3	2.0	2.1	2.3	2.3	2.4	2.6	2.7	2.3
1989	2.1	2.0	2.1	2.0	2.0	2.0	2.1	2.4	2.4	2.4	2.4	2.1	2.3
1990	2.1	2.0	2.2	1.9	1.9	1.9	2.1	2.3	2.6	2.3	2.3	2.1	2.1
1991	2.3	2.1	1.7	1.7	1.7	1.7	2.1	2.4	2.7	1.9	2.4	2.0	2.0
1992	1.8	1.9	1.7	1.5	1.9	1.8	1.8	2.0	2.1	2.6	2.1	2.2	1.9
1993	2.1	2.0	1.9	1.8	2.0	1.9	2.1	2.3	2.4	2.3	2.3	2.2	2.2
Mean	SE	E	SE	E	SE	SE	SE	SE	SE	SE	SE	SE	SE
Direction	SE	E	SE	E	SE	SE	SE	SE	SE	SE	SE	SE	SE

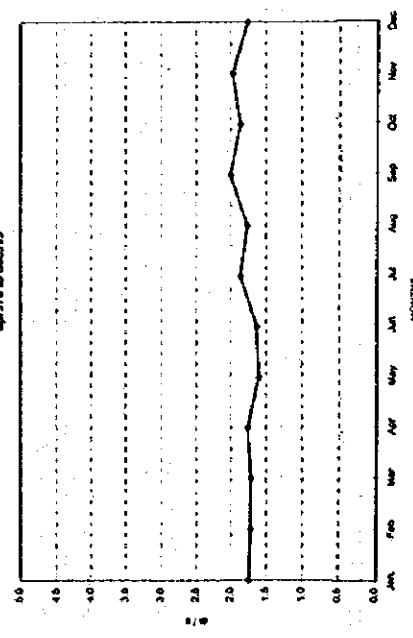
Wind Speed - 02451032 - CÁNDIDO ABREU STATION
Apr/88 to Dec/93



Wind Speed and Direction
02452060 - NOVA CANTU STATION

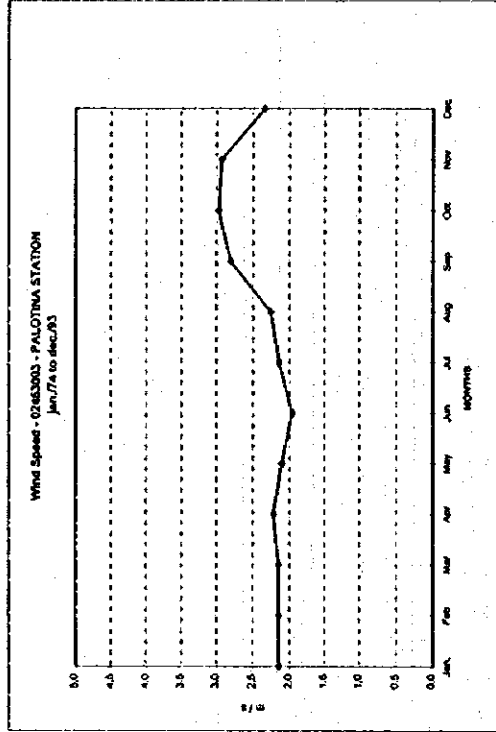
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1978	3.3	3.4	2.9	3.3	3.5	3.3	3.4	3.3	3.3	2.7	3.2	2.7	3.0
1979	2.3	2.6	2.7	2.8	2.7	2.8	2.2	2.6	2.6	2.1	2.1	1.8	2.3
1980	2.2	2.3	2.3	2.2	2.2	1.7	2.6	1.9	2.2	1.8	2.1	2.0	2.1
1981	2.1	2.2	2.2	2.0	2.2	2.0	1.7	1.9	1.8	1.8	1.9	1.9	2.0
1982	1.6	2.1	2.0	1.9	2.0	1.7	1.9	1.5	1.6	1.8	1.8	1.5	1.8
1983	1.5	1.7	1.8	1.8	1.5	1.8	2.2	1.9	1.9	1.7	1.8	1.8	1.8
1984	1.8	1.6	1.7	1.7	1.6	1.7	2.4	2.0	2.1	1.9	1.9	1.7	1.8
1985	1.6	1.4	1.2	1.4	1.4	1.8	1.7	1.3	2.1	1.7	2.4	1.8	1.6
1986	1.6	1.4	1.6	1.6	1.6	1.5	2.0	2.0	2.2	1.6	1.7	1.6	1.7
1987	1.6	1.4	1.5	1.6	1.6	1.5	2.0	2.2	2.3	2.1	2.2	1.4	1.8
1988	1.5	1.2	1.0	1.4	1.7	1.2	1.3	1.9	1.8	2.0	1.9	2.0	1.8
1989	1.3	1.1	1.6	1.6	1.2	1.2	1.4	1.4	1.8	1.7	1.6	1.4	1.4
1990	1.0	0.9	1.2	0.8	1.0	1.0	1.1	1.3	1.9	1.5	1.3	1.0	1.2
1991	1.1	1.3	1.0	0.8	1.0	1.4	1.4	1.3	1.3	1.3	1.6	1.4	1.3
1992	1.0	1.1	1.2	1.1	1.3	1.1	1.0	1.2	1.2	1.5	1.6	1.6	1.2
1993	1.6	1.7	1.7	1.6	1.6	1.6	1.9	1.8	2.0	1.9	2.0	1.8	1.8
Mean	E	SE	E	SE	E	SE	E	E	E	E	E	E	E
Direction	E	SE	E	SE	E	SE	E	E	E	E	E	E	E

Wind Speed - 02452060 - NOVA CANTU STATION
Apr/78 to Dec/93



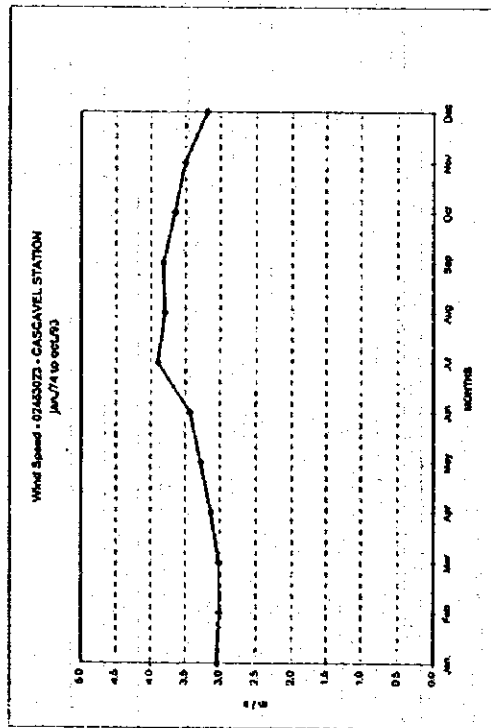
Wind Speed and Direction
02453003 - PALOTINA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	2.2	1.6	2.3	1.5	1.6	1.7	0.6	2.1	1.7	1.7	1.6	2.4	1.9
1975	1.9	2.4	2.0	2.4	2.4	1.9	2.4	1.7	2.3	2.0	2.8	2.0	2.2
1976	1.6	1.6	1.8	1.8	2.0	2.2	2.3	1.8	2.2	3.3	2.8	1.8	2.1
1977	2.2	1.8	2.0	3.1	1.8	1.9	2.4	3.9	4.4	5.1	4.3	3.6	3.0
1978	3.0	3.2	3.0	3.7	3.5	2.8	2.4	3.9	4.2	4.5	4.2	2.8	3.4
1979	3.2	3.2	3.8	2.4	1.9	1.5	2.0	3.3	3.3	3.1	3.3	2.4	2.7
1980	2.0	2.2	2.1	3.0	2.5	2.4	2.2	2.3	3.1	3.1	3.2	2.4	2.6
1981	2.3	2.1	2.2	2.2	2.0	2.0	2.5	2.0	2.7	2.6	2.2	2.2	2.3
1982	2.4	2.1	2.0	2.2	2.2	2.1	2.1	2.2	2.5	2.5	2.5	2.4	2.3
1983	1.8	2.0	2.0	2.1	2.4	2.0	1.9	2.3	3.0	3.9	2.7	2.4	2.4
1984	1.9	2.5	3.3	2.4	2.0	1.7	2.1	2.5	2.3	2.7	2.7	2.1	2.4
1985	2.0	2.0	1.7	2.4	2.0	2.2	2.3	2.1	2.6	2.7	3.1	2.6	2.3
1986	2.4	2.2	1.9	2.2	1.9	2.0	1.8	1.8	3.0	2.7	3.2	2.1	2.3
1987	1.7	2.3	2.0	2.2	2.3	1.8	2.0	2.1	3.0	2.4	2.6	2.1	2.2
1988	1.8	1.6	1.8	2.3	2.0	1.7	2.5	1.8	2.7	3.5	3.1	2.3	2.2
1989	2.2	1.7	1.8	1.7	1.8	1.7	2.0	2.3	2.2	3.0	2.8	2.6	2.2
1990	1.9	1.9	2.1	2.1	1.9	1.9	2.1	2.1	3.0	2.7	2.8	2.4	2.3
1991	2.4	1.7	2.0	1.7	1.8	1.9	2.2	2.3	2.8	3.0	2.8	2.0	2.2
1992	1.9	2.2	1.9	1.6	2.0	2.1	2.3	2.1	2.5	2.4	2.8	2.2	2.2
1993	1.7	2.2	1.8	1.8	2.2	2.0	1.9	1.9	2.7	2.7	2.3	2.5	2.1
Mean	2.1	2.2	2.2	2.2	2.1	2.0	2.2	2.3	2.8	3.0	2.9	2.4	2.4
Direction	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE



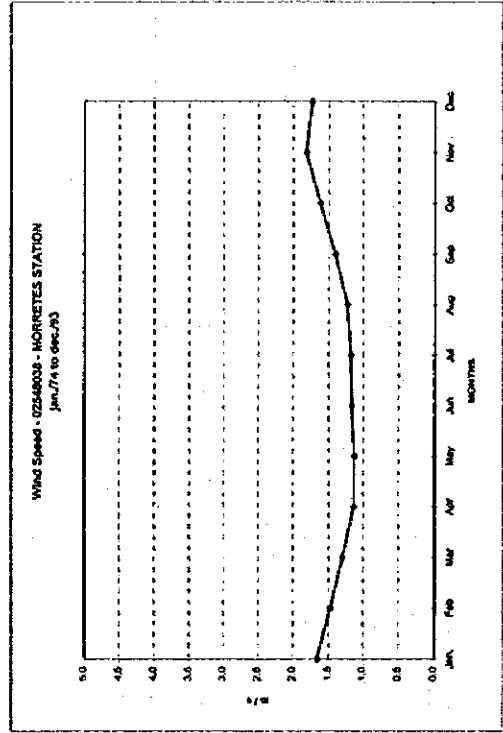
Wind Speed and Direction
02453023 - CASCAVEL STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	3.2	2.4	2.5	3.1	2.4	3.1	2.4	3.1	3.0	2.7	3.3	2.6	2.7
1975	2.7	3.3	3.9	3.7	3.4	3.7	4.1	3.9	4.4	5.1	3.2	2.7	3.5
1976	2.6	2.6	2.8	2.6	2.6	3.3	3.7	2.9	1.6	2.0	1.6	2.5	2.6
1977	3.1	2.8	2.6	2.7	2.5	3.1	3.0	5.0	4.5	5.0	4.7	3.9	3.7
1978	3.6	3.6	3.5	3.4	3.4	3.4	4.1	4.5	4.3	3.6	4.0	3.1	3.7
1979	3.1	3.5	3.0	3.4	3.6	3.8	4.1	3.8	4.2	3.8	3.8	3.6	3.6
1980	3.1	3.2	3.0	3.7	3.5	4.0	4.3	3.8	4.2	3.9	3.8	3.6	3.7
1981	3.1	3.2	2.9	3.1	3.2	3.3	4.0	3.5	3.6	3.4	3.2	3.3	3.3
1982	3.2	3.0	3.0	3.2	3.5	3.1	3.5	3.5	3.4	3.8	3.1	3.1	3.3
1983	3.0	3.2	3.2	3.0	3.7	3.3	3.6	3.8	4.0	3.5	2.4	2.8	3.3
1984	2.9	3.1	3.0	3.5	3.3	3.3	3.8	4.1	3.4	3.4	3.1	2.8	3.3
1985	2.9	3.0	2.9	3.3	3.2	3.5	4.1	3.8	3.8	3.5	3.1	2.9	3.3
1986	3.0	3.0	2.8	3.2	3.0	3.5	3.5	3.9	3.6	3.5	3.3	3.3	3.3
1987	2.7	2.8	2.8	2.8	3.3	3.0	3.5	3.8	3.6	3.0	3.5	2.8	3.1
1988	2.7	2.8	2.4	2.8	2.8	1.8	3.8	3.1	3.5	3.5	3.2	2.9	2.9
1989	3.1	2.4	2.1	2.3	2.6	2.5	3.3	3.5	4.2	4.8	4.3	4.2	3.5
1990	3.7	3.1	3.1	4.2	3.8	4.2	4.2	4.4	4.0	4.4	4.3	4.1	4.1
1991	3.3	2.8	3.1	3.3	3.8	4.5	3.2	4.8	4.4	4.8	4.3	3.8	4.0
1992	2.8	3.5	3.6	3.8	4.6	3.2	4.7	4.3	3.9	3.9	3.9	4.0	4.0
1993	3.0	3.0	3.0	3.1	3.3	3.4	3.0	3.8	3.6	3.7	3.5	3.2	3.4
Mean	3.0	3.0	3.0	3.1	3.3	3.4	3.0	3.8	3.6	3.7	3.5	3.2	3.4
Direction	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE



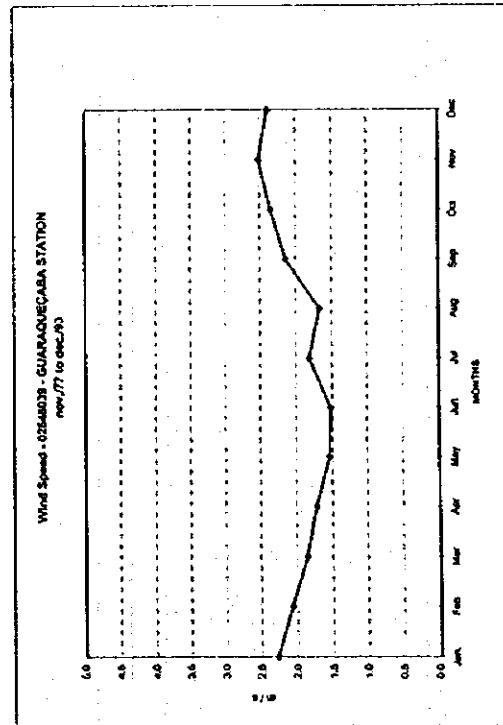
Wind Speed and Direction
02548038 - MORRETES STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	1.0	0.8	0.8	0.7	0.7	0.5	0.3	0.6	0.4	0.4	0.9	1.0	0.7
1975	0.8	0.7	0.7	0.7	0.7	0.5	0.7	0.7	0.8	0.9	1.0	1.0	0.8
1976	0.9	0.9	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.9	1.0	1.1	0.9
1977	0.9	0.9	0.8	0.7	0.5	0.4	0.8	0.7	0.7	1.0	1.0	2.3	2.0
1978	2.3	2.4	2.0	1.6	1.5	1.5	1.3	1.7	2.1	2.3	2.3	1.9	2.0
1979	2.3	2.1	1.4	1.5	1.7	0.9	1.8	1.6	2.0	1.9	2.0	2.0	1.8
1980	1.9	1.9	1.4	1.2	1.0	1.0	1.3	1.4	1.6	1.8	1.9	1.6	1.5
1981	1.7	1.9	1.6	1.4	1.3	1.4	1.6	1.3	1.6	1.6	1.7	1.6	1.6
1982	1.7	1.5	1.3	1.4	1.1	1.3	1.4	1.1	1.4	1.9	1.7	1.8	1.5
1983	1.6	1.1	1.0	0.8	0.7	1.0	1.1	1.2	1.3	1.7	1.8	1.8	1.3
1984	1.7	1.3	1.0	0.9	1.1	1.1	1.1	1.2	1.6	1.5	1.5	1.8	1.3
1985	1.8	1.3	1.2	0.9	1.2	1.8	1.5	1.6	1.8	1.0	2.2	2.2	1.6
1986	1.9	1.7	1.6	1.4	1.4	1.2	1.4	1.3	1.3	1.9	1.9	1.5	1.5
1987	1.8	1.8	1.6	1.4	1.4	1.2	1.4	1.5	1.6	1.8	1.8	2.2	1.6
1988	1.8	1.5	1.5	1.3	1.0	2.7	1.2	1.2	1.4	1.8	2.0	2.0	1.6
1989	1.7	1.4	1.3	1.2	1.2	1.0	1.3	1.5	1.5	2.0	2.3	1.7	1.5
1990	1.4	1.4	1.4	1.3	1.2	1.4	1.1	1.3	1.6	1.6	1.6	2.2	1.5
1991	1.9	1.6	1.5	1.2	1.1	1.0	1.1	1.3	1.5	1.6	2.0	2.0	1.5
1992	2.0	1.6	1.3	1.4	1.2	1.1	1.1	1.3	1.4	1.9	1.7	1.8	1.5
1993	1.5	1.4	1.1	1.0	1.0	0.9	1.5	1.3	1.4	1.5	2.2	1.8	1.4
Mean	1.7	1.5	1.3	1.1	1.1	1.2	1.2	1.2	1.4	1.6	1.6	1.7	1.4
Direction	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE



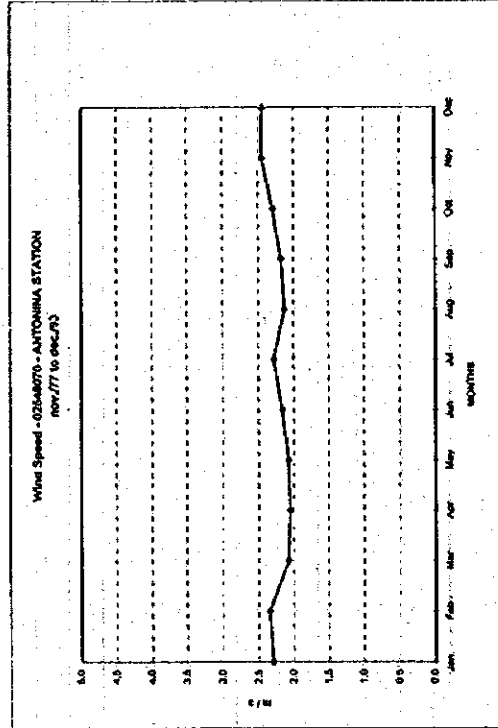
Wind Speed and Direction
02548038 - GUARAQUECABA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1977	1.6	2.3	2.0	1.7	1.4	1.7	1.7	1.7	2.3	2.1	2.0	1.8	1.6
1978	1.6	1.9	1.5	1.3	1.8	0.9	1.9	1.1	2.2	2.3	3.0	2.4	1.8
1979	2.6	2.2	2.3	1.5	1.6	1.7	1.6	1.6	2.8	2.2	2.0	2.7	2.1
1980	2.3	2.3	1.6	2.3	1.5	1.5	1.9	1.9	2.5	2.6	2.9	3.1	2.2
1981	2.6	2.1	2.1	2.1	1.6	2.1	1.9	2.1	2.5	2.6	2.6	2.9	2.2
1982	2.4	2.7	2.2	1.6	1.7	2.0	1.8	2.3	2.7	2.6	2.4	2.2	2.2
1983	2.7	2.4	1.6	1.8	1.9	2.0	2.1	2.0	2.8	2.7	3.1	2.3	2.3
1984	2.7	2.2	2.1	1.9	1.8	1.8	2.1	2.0	1.9	2.7	3.4	3.1	2.3
1985	3.3	3.2	2.4	2.3	1.9	1.9	2.3	2.2	2.4	3.4	3.2	2.7	2.8
1986	2.5	2.0	2.1	2.2	1.4	1.6	2.6	2.4	2.2	2.9	2.7	2.4	2.3
1987	2.3	1.6	2.2	1.9	1.4	1.4	1.8	1.9	2.0	2.3	2.6	2.1	2.0
1988	1.8	1.8	1.7	1.3	1.7	1.2	1.6	1.7	1.9	2.3	2.6	1.9	1.8
1989	1.8	1.8	1.6	1.6	1.2	1.4	1.1	1.7	2.3	1.8	1.6	2.6	1.7
1990	2.0	1.8	1.3	1.4	1.1	1.2	1.8	1.3	1.9	1.9	2.5	2.4	1.7
1991	2.0	1.8	1.5	1.4	1.5	1.3	1.0	1.0	1.4	1.8	1.4	1.6	1.5
1992	1.4	1.0	1.4	1.4	1.1	1.1	1.5	1.1	1.0	1.3	2.4	2.1	1.4
1993	2.3	2.1	1.6	1.7	1.5	1.5	1.6	1.7	2.1	2.4	2.5	2.4	2.0
Mean	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
Direction	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE



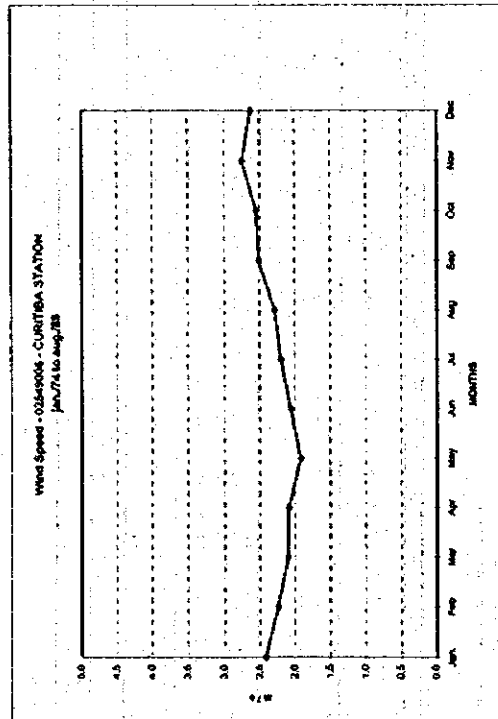
Wind Speed and Direction
02548070 - ANTONINA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1976	2.3	1.6	1.8	1.6	1.8	1.7	2.1	2.1	1.8	2.3	1.7	2.1	2.0
1977	1.5	1.3	1.8	1.4	1.4	2.0	1.3	2.1	1.6	2.3	2.3	2.4	1.8
1978	3.0	2.1	1.8	1.9	1.5	2.3	2.1	1.7	2.2	1.9	2.1	2.4	2.1
1981	1.9	2.1	1.8	1.7	1.4	2.0	2.2	1.7	2.0	1.8	2.1	2.4	1.9
1982	1.9	1.9	1.7	1.5	1.6	2.0	2.2	1.7	2.4	2.2	2.3	2.0	2.0
1983	1.5	2.4	1.4	1.0	1.5	2.0	2.2	1.9	1.7	2.3	1.6	1.9	1.8
1984	2.2	2.2	1.7	1.4	1.8	2.1	2.2	1.9	1.9	1.8	2.2	1.8	1.9
1985	2.6	2.3	1.9	1.7	1.8	1.4	2.0	2.3	1.6	2.1	2.2	2.3	2.0
1986	2.3	2.2	2.0	1.9	2.4	1.8	1.8	2.0	1.7	2.1	2.1	1.9	2.0
1987	2.3	2.3	2.1	2.4	1.9	2.2	3.0	2.0	2.1	2.1	2.3	2.2	2.2
1988	2.5	2.0	2.2	2.0	2.1	1.7	2.0	2.1	2.1	2.2	2.4	2.3	2.1
1989	2.6	2.6	2.1	2.1	2.4	2.2	2.1	3.0	2.4	2.3	3.2	2.4	2.4
1990	2.4	2.4	2.6	2.3	2.5	2.1	2.2	2.2	2.3	2.4	2.7	3.2	2.5
1991	3.5	3.8	2.7	3.4	2.6	2.8	2.6	2.4	2.2	2.6	3.6	3.4	2.9
1992	3.3	3.3	2.6	3.0	3.0	3.3	2.7	2.4	2.7	3.1	3.0	2.7	3.0
1993	3.1	3.1	2.6	2.6	3.0	2.8	3.2	3.1	3.2	3.3	3.7	3.5	3.1
Mean	2.3	2.4	2.1	2.1	2.1	2.2	2.3	2.1	2.2	2.3	2.5	2.4	2.2
Direction	S	S	S	S	S	S	S	S	S	S	S	S	S



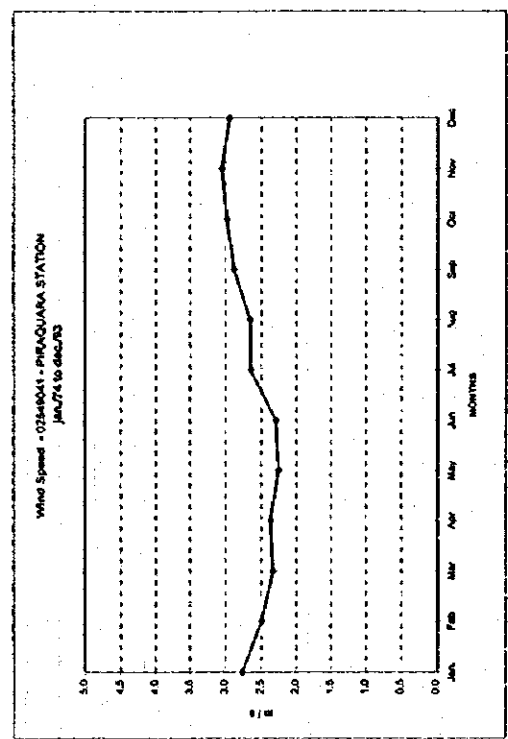
Wind Speed and Direction
02549008 - CURITIBA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	2.3	1.4	2.3	1.9	1.5	1.7	1.5	1.8	2.0	1.7	2.4	2.0	2.0
1975	2.6	2.1	2.0	1.5	1.2	1.1	1.3	1.8	2.3	1.6	2.5	1.8	1.8
1976	1.9	2.0	1.8	1.8	1.6	1.6	1.7	1.7	2.1	3.1	2.6	2.8	2.1
1977	1.9	2.4	2.7	2.9	2.5	2.5	2.8	3.2	2.7	2.9	2.6	2.9	2.7
1978	2.8	2.8	2.2	1.8	1.9	1.8	1.8	2.1	2.7	2.3	2.6	2.5	2.2
1979	2.3	2.5	1.7	2.3	2.4	2.2	2.7	2.2	2.6	2.9	3.0	2.9	2.5
1980	2.7	2.6	2.3	2.4	2.0	2.3	2.7	2.4	2.8	2.8	3.1	3.0	2.6
1981	2.8	2.1	2.3	2.7	2.0	2.7	3.2	2.9	2.9	3.1	2.9	3.7	2.8
1982	3.0	2.4	2.4	2.2	2.0	2.9	3.4	2.2	3.0	3.2	3.0	2.7	2.8
1983	2.8	2.5	2.4	2.3	2.3	2.2	2.8	2.5	2.2	2.7	2.8	2.8	2.9
1984	2.9	2.1	2.1	2.1	1.8	2.2	2.6	2.4	2.5	2.5	2.8	2.4	2.4
1985	2.3	2.3	2.2	2.3	1.8	2.2	2.3	2.9	2.9	2.4	2.3	2.3	2.3
1986	2.3	2.5	2.0	2.0	2.5	1.8	2.0	2.4	2.2	2.5	2.7	2.4	2.3
1987	2.4	2.4	1.6	1.8	1.4	1.9	2.3	2.3	2.1	1.9	2.2	2.3	2.1
1988	1.6	1.6	1.6	1.6	1.4	1.9	1.9	2.3	2.6	2.4	2.6	2.4	2.1
1989	2.5	1.9	1.8	1.8	1.4	1.6	1.6	2.6	2.4	2.6	2.4	2.1	1.9
Mean	2.4	2.2	2.1	2.1	1.9	2.1	2.2	2.3	2.5	2.6	2.8	2.6	2.3
Direction	E	E	E	E	E	NE	NE	NE	NE	NE	NE	NE	NE



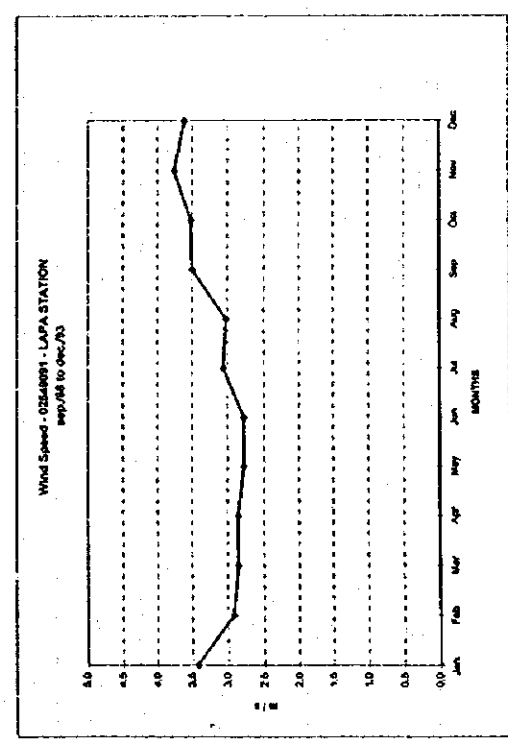
Wind Speed and Direction
02549041 - PIRAQUARA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	2.6	1.9	2.3	2.1	2.3	2.9	2.5	3.8	3.4	3.8	4.3	3.7	3.0
1975	3.6	3.4	3.1	3.1	2.8	2.6	3.1	3.9	4.1	3.6	3.6	3.4	3.4
1976	3.2	3.2	2.4	3.2	3.8	3.5	4.5	4.4	3.6	3.8	3.2	3.5	3.5
1977	2.2	1.8	2.5	2.9	2.6	2.3	2.4	2.8	2.1	2.8	2.8	3.0	2.5
1978	2.2	2.2	1.6	1.4	1.6	1.9	2.5	2.4	2.7	2.8	3.0	2.7	2.7
1979	3.5	3.2	2.6	2.7	2.6	1.9	2.5	2.4	2.7	2.8	3.0	2.7	2.7
1980	2.9	2.8	2.1	2.1	1.7	2.2	2.6	2.3	2.7	3.0	3.2	2.9	2.6
1981	2.8	2.3	2.4	2.4	1.9	2.3	2.5	2.3	2.7	3.2	2.7	3.1	2.6
1982	2.9	2.4	2.5	2.5	2.2	2.6	2.6	2.2	2.6	2.9	2.9	2.7	2.6
1983	2.9	3.0	2.6	2.3	2.7	2.2	2.8	2.7	2.6	2.9	2.6	2.7	2.7
1984	2.8	2.3	2.0	2.5	1.8	2.2	2.7	2.5	2.7	2.6	2.8	2.7	2.5
1985	2.7	2.4	2.1	2.4	2.0	2.4	2.6	2.7	2.6	2.8	2.8	2.7	2.5
1986	2.5	2.2	2.6	2.1	2.2	2.0	2.2	2.3	2.9	2.8	3.0	2.6	2.5
1987	2.5	2.6	2.4	2.3	2.2	2.0	2.6	2.5	3.0	2.7	2.7	3.1	2.8
1988	2.4	2.8	2.1	2.5	1.9	2.0	2.4	2.7	3.1	3.0	3.5	2.9	2.6
1989	2.9	2.3	2.2	2.2	2.2	1.9	2.4	2.7	2.9	3.0	3.2	3.1	2.6
1990	2.3	2.6	2.2	2.5	2.0	2.2	2.3	2.5	2.7	2.8	2.7	3.0	2.5
1991	2.6	2.3	2.5	2.2	2.0	2.1	2.6	2.3	2.4	2.6	2.6	2.7	2.5
1992	2.6	2.5	2.3	2.2	2.3	2.3	2.3	2.7	2.6	2.5	2.7	2.4	2.4
1993	2.5	2.0	2.3	1.8	2.2	2.2	2.4	2.2	2.9	2.6	3.0	3.0	2.4
Mean	2.6	2.5	2.3	2.4	2.3	2.3	2.7	2.7	2.9	3.0	3.1	2.9	2.6
Direction	E	E	E	E	E	N	N	N	N	E	E	E	E



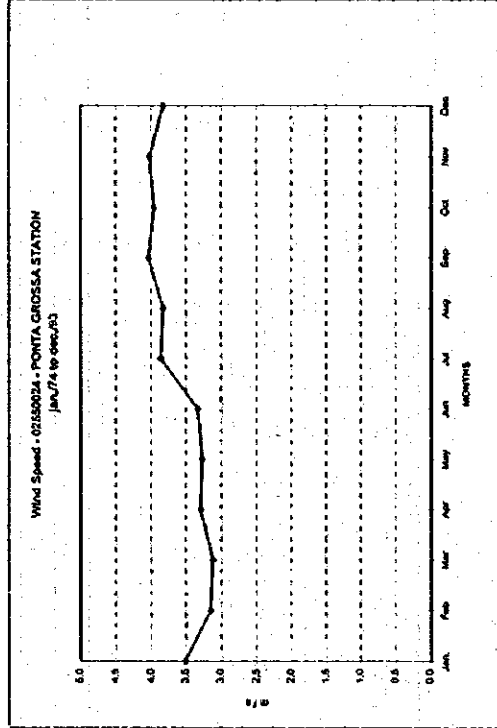
Wind Speed and Direction
02549091 - LAPA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1988	3.5	2.6	2.9	2.7	2.5	2.5	2.8	3.4	3.7	3.8	4.2	3.5	3.2
1989	3.6	3.0	3.0	3.0	2.9	2.7	2.9	3.0	3.5	3.2	3.5	3.6	3.1
1990	3.6	2.6	3.1	2.8	2.8	3.1	3.0	3.1	3.4	3.5	3.8	3.5	3.2
1991	3.6	3.4	2.7	3.1	3.2	2.9	3.4	3.0	3.4	3.4	3.5	3.3	3.2
1992	3.1	2.7	2.6	2.6	2.6	2.7	3.2	2.6	3.4	3.4	3.6	3.8	3.0
1993	3.4	2.9	2.9	2.9	2.8	2.8	3.1	3.0	3.5	3.6	3.8	3.6	3.2
Mean	E	E	E	E	E	NE	NE	E	E	E	E	E	E
Direction	E	E	E	E	E	NE	NE	E	E	E	E	E	E



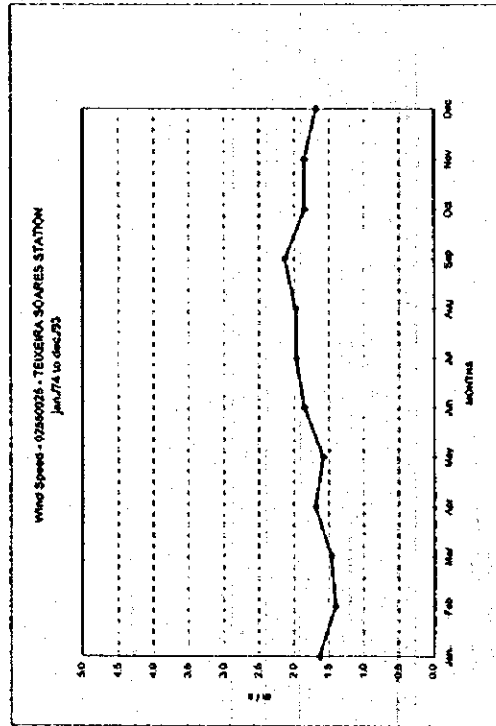
Wind Speed and Direction
02450024 - PONTA GROSSA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	4.1	4.2	4.5	4.4	4.0	4.1	4.1	4.7	5.8	5.9	4.1	5.4	5.0
1975	4.1	4.3	4.2	4.1	4.1	4.3	4.3	4.3	4.1	5.5	4.8	4.2	4.7
1976	4.0	4.0	3.4	3.1	3.3	3.3	3.2	4.0	4.1	4.1	4.1	4.4	4.0
1977	3.2	2.2	2.9	3.2	3.7	3.6	4.8	4.6	3.9	4.1	4.1	4.0	3.7
1978	4.1	3.0	2.9	2.4	2.4	3.5	4.0	4.0	4.1	3.0	4.0	4.4	3.5
1979	4.4	3.6	3.4	3.8	4.1	3.6	3.8	3.3	4.0	4.0	4.2	3.7	3.8
1980	3.7	3.3	2.8	3.3	2.8	3.7	4.1	4.1	3.5	4.2	4.0	3.6	3.5
1981	3.6	3.1	2.9	3.2	2.8	3.4	3.4	3.4	3.5	4.0	3.8	3.8	3.5
1982	3.0	2.9	3.1	3.0	3.1	3.1	3.6	3.4	3.3	3.9	3.9	3.7	3.6
1983	3.0	3.0	3.4	3.0	4.0	3.6	4.2	3.9	4.1	4.3	3.5	4.0	3.7
1984	3.2	2.9	3.3	3.1	2.4	3.2	4.3	3.7	3.5	3.9	3.7	3.4	3.4
1985	3.4	2.7	2.6	3.2	2.9	3.1	3.6	3.8	4.1	3.3	3.8	3.8	3.3
1986	3.2	3.1	3.1	3.4	3.7	3.3	3.3	4.1	4.1	3.9	4.3	3.2	3.5
1987	3.1	3.4	2.9	3.1	3.3	2.7	4.4	3.8	4.4	3.5	3.6	3.9	3.9
1988	3.1	3.3	2.9	4.6	2.7	2.2	3.9	3.8	4.3	4.4	4.1	5.6	3.5
1989	3.4	2.6	2.8	3.1	3.2	2.9	3.1	3.7	3.8	4.0	4.1	4.1	3.4
1990	3.6	2.9	2.8	3.3	3.0	3.0	3.7	3.8	3.8	3.8	3.4	3.9	3.4
1991	3.6	2.9	3.1	3.0	2.9	3.3	3.9	3.7	3.9	3.8	3.6	3.7	3.5
1992	3.2	2.6	2.7	3.0	3.4	3.8	4.1	3.4	3.5	3.7	3.7	3.4	3.4
1993	2.8	2.6	2.6	2.6	3.2	3.1	3.3	3.0	4.0	3.5	3.6	3.7	3.2
Mean	3.5	3.2	3.1	3.3	3.3	3.3	3.9	3.8	4.0	4.0	4.0	3.8	3.6
Direction	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE



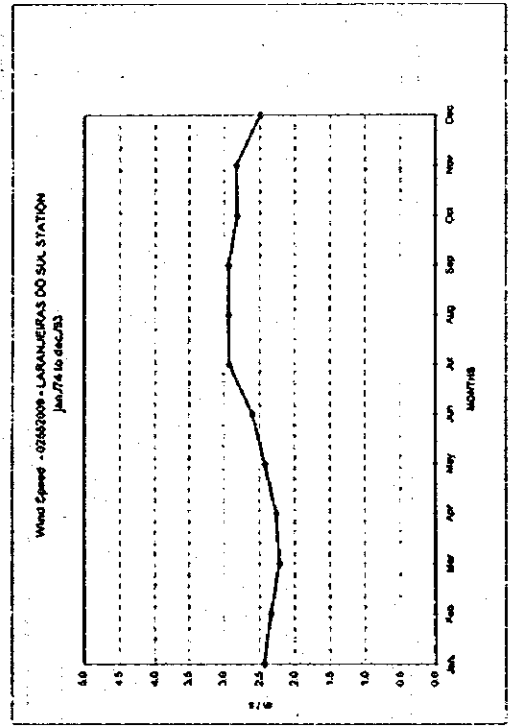
Wind Speed and Direction
02450025 - TEJERA SOARES STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	1.2	0.7	1.4	1.5	1.6	1.9	1.5	2.1	1.9	2.0	2.1	2.0	1.7
1975	2.0	1.7	1.6	2.2	1.9	2.3	3.1	2.7	2.7	3.1	3.3	1.9	2.4
1976	2.4	2.3	2.4	3.2	3.7	3.6	3.4	2.8	3.0	2.1	2.1	2.2	2.9
1977	2.1	1.7	2.3	2.7	2.7	2.8	2.7	1.9	2.0	1.9	2.1	2.3	2.3
1978	1.9	1.4	1.9	2.2	2.3	1.9	2.5	3.0	2.6	2.4	2.1	2.0	2.2
1979	2.0	1.3	1.3	2.5	2.1	1.8	2.4	2.0	2.4	1.6	1.6	2.1	1.9
1980	1.9	1.4	1.7	1.2	1.2	1.5	2.3	1.5	2.1	1.4	1.2	1.1	1.5
1981	1.2	0.8	1.3	1.3	1.2	1.6	2.1	1.9	2.8	2.0	1.8	2.1	1.7
1982	1.6	1.7	1.7	1.9	1.8	1.8	1.8	1.7	2.3	1.8	1.7	1.7	1.8
1983	1.3	1.5	1.9	1.4	2.0	2.0	2.3	1.9	2.0	1.8	1.7	1.5	1.8
1984	1.9	1.8	1.9	1.6	1.4	2.0	2.4	2.1	2.0	1.5	1.3	1.9	1.8
1985	1.4	1.6	1.1	1.5	1.2	1.6	1.7	1.7	1.7	1.3	1.6	1.6	1.5
1986	1.9	1.5	1.6	1.6	1.6	1.3	1.6	1.5	1.8	1.9	2.0	1.8	1.7
1987	1.3	1.9	1.3	1.1	1.3	1.0	1.2	2.0	1.8	1.1	1.4	1.7	1.4
1988	1.2	1.2	0.9	1.2	1.2	3.2	0.8	1.8	2.0	1.9	2.1	1.0	1.5
1989	1.5	1.3	1.1	1.4	1.3	1.1	1.2	1.8	1.9	1.6	1.5	1.7	1.4
1990	1.0	1.0	1.0	1.2	0.9	1.1	0.9	1.1	1.8	0.8	0.6	0.6	1.0
1991	0.7	0.4	0.6	0.8	0.4	1.6	2.0	1.3	1.7	1.8	2.2	0.6	1.3
1992	1.7	1.8	1.2	1.5	0.9	1.0	2.0	2.2	2.5	1.8	2.6	2.1	1.8
1993	1.9	1.2	1.6	2.0	1.0	1.4	1.6	1.7	2.0	2.2	2.6	2.2	1.8
Mean	1.6	1.4	1.5	1.7	1.8	1.9	2.0	2.0	2.1	1.9	1.9	1.7	1.8
Direction	SE	SE	SE	SE	SE	NNW	SE	SE	SE	SE	SE	SE	SE



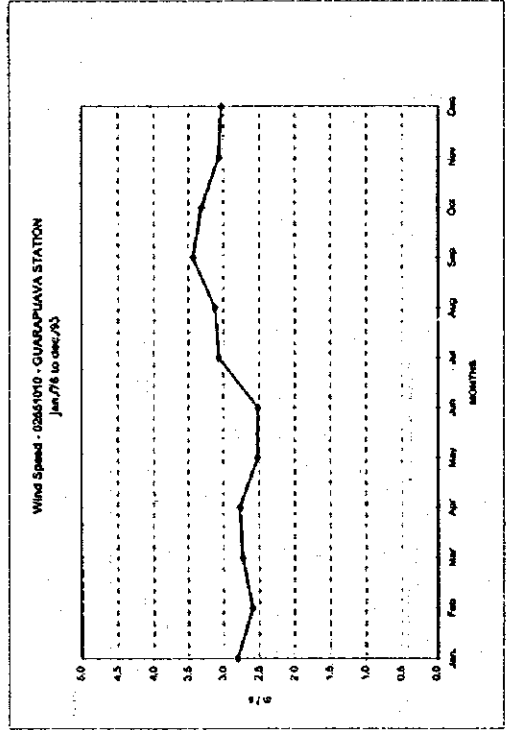
Wind Speed and Direction
02552009 - LARANJEIRAS DO SUL STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	2.7	2.2	2.4	2.8	2.7	3.4	2.2	3.4	3.5	3.3	4.0	3.2	3.0
1975	2.4	2.8	2.9	2.6	3.3	3.0	3.0	3.2	3.3	2.8	3.5	1.9	2.9
1976	2.9	2.0	1.5	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
1977	2.3	3.1	2.4	1.7	2.4	2.1	3.6	4.1	3.0	3.4	3.8	3.3	2.9
1978	3.3	2.8	2.9	2.6	2.7	2.8	2.9	3.2	3.2	2.9	3.3	3.0	3.0
1979	3.4	3.1	2.9	2.9	2.7	2.4	2.9	2.7	3.2	2.9	3.0	2.8	2.9
1980	2.6	2.3	2.2	2.5	2.0	2.0	3.1	2.6	3.0	2.7	2.5	2.0	2.6
1981	2.2	1.8	1.7	2.2	2.0	2.3	2.1	2.3	2.6	2.0	2.4	2.4	2.3
1982	2.2	2.1	1.6	1.9	2.1	2.8	2.7	2.8	2.5	2.7	2.7	2.3	2.6
1983	2.0	2.6	2.5	1.8	2.0	2.6	3.5	3.0	2.6	2.7	2.7	2.7	2.6
1984	2.2	2.0	2.0	2.2	2.2	2.0	2.8	2.7	2.5	2.4	2.0	2.1	2.3
1985	1.9	1.7	2.0	2.0	1.8	2.3	2.7	2.8	2.4	2.2	2.0	1.7	2.1
1986	1.8	1.6	2.0	1.9	1.6	1.8	2.3	2.9	2.5	2.2	2.0	1.7	2.1
1987	2.2	2.6	2.0	2.3	2.5	2.5	3.1	3.1	2.8	2.5	2.7	2.5	2.8
1988	2.3	2.6	2.6	2.3	2.2	2.7	3.1	3.3	3.8	3.2	3.3	2.8	2.7
1989	2.3	2.4	2.3	2.3	2.4	2.4	2.9	3.1	3.1	2.9	2.9	2.8	2.7
1990	2.6	2.4	2.3	2.3	2.4	2.4	2.9	3.1	3.1	2.9	2.8	2.8	2.7
1991	2.7	2.4	2.3	2.3	2.4	2.7	2.8	2.9	3.0	2.8	2.8	2.8	2.7
1992	2.3	2.3	2.4	2.3	2.6	2.7	3.0	2.7	2.6	2.2	2.6	2.3	2.5
1993	2.3	2.2	2.2	2.0	2.8	2.6	2.9	2.8	2.8	2.7	2.7	2.6	2.5
Mean	2.4	2.3	2.2	2.3	2.4	2.6	2.9	2.9	2.9	2.8	2.8	2.6	2.6
Direction	E	E	E	E	E	E	E	E	E	E	E	E	E



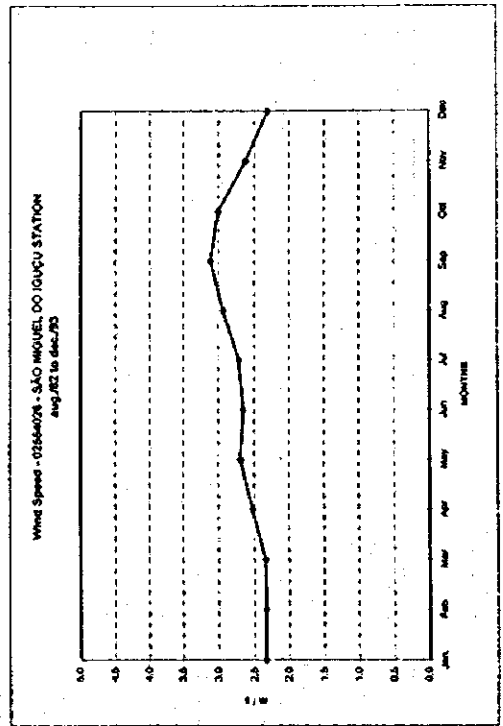
Wind Speed and Direction
02551010 - GUARAPUAVA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1976	2.1	1.1	1.1	1.1	1.1	1.6	2.5	2.7	2.5	3.5	2.4	2.3	2.2
1977	3.1	2.9	3.1	3.1	3.0	2.8	3.5	3.0	3.8	2.5	3.6	3.6	3.4
1978	3.6	3.4	2.9	3.8	2.6	2.9	3.1	2.7	3.9	3.2	3.3	3.4	3.5
1979	3.5	3.0	2.5	3.1	2.3	3.1	3.0	3.5	3.8	3.5	3.5	3.1	3.2
1980	3.2	3.0	3.3	3.2	2.9	2.7	3.4	3.1	3.3	3.3	2.6	3.4	3.1
1981	3.4	2.8	3.4	3.7	3.0	2.5	2.9	2.9	3.8	3.2	2.5	2.9	3.0
1982	2.5	3.1	3.4	2.5	2.7	2.1	3.1	3.3	3.5	4.0	2.5	3.2	3.0
1983	2.9	2.6	3.4	3.2	2.0	2.3	2.6	3.4	3.1	3.4	3.1	2.6	2.9
1984	3.1	2.1	2.3	2.6	2.2	2.6	3.1	2.8	3.7	3.2	3.1	3.0	2.8
1985	3.1	2.4	2.6	2.6	1.9	3.4	3.2	2.5	3.5	3.1	3.1	2.8	2.7
1986	2.3	2.7	2.8	2.8	2.4	2.2	2.7	2.9	3.4	2.9	2.9	2.7	2.7
1987	2.4	2.6	2.6	2.7	2.2	1.0	3.5	3.3	4.0	3.4	3.5	3.0	2.9
1988	3.0	3.4	2.4	2.6	2.6	2.4	3.1	3.3	4.1	3.3	3.1	3.3	2.9
1989	2.9	2.6	3.0	2.7	2.6	2.8	2.9	3.3	3.7	3.0	3.0	3.1	2.9
1990	2.8	2.3	2.8	2.5	2.6	2.6	3.0	3.0	3.1	3.3	3.1	2.8	2.8
1991	2.8	2.8	2.8	2.7	2.9	2.9	3.7	3.1	3.2	2.7	3.1	2.8	2.8
1992	2.8	2.8	2.8	2.7	2.7	2.9	2.7	3.1	3.2	2.7	3.1	2.8	2.8
1993	2.1	2.2	2.5	2.4	3.1	2.9	2.7	2.7	3.2	3.0	3.1	3.2	2.8
Mean	2.8	2.6	2.7	2.8	2.5	2.5	3.1	3.1	3.4	3.3	3.1	3.0	2.9
Direction	E	NE	E	NE	NE	NE	NE	NE	E	E	E	E	NE



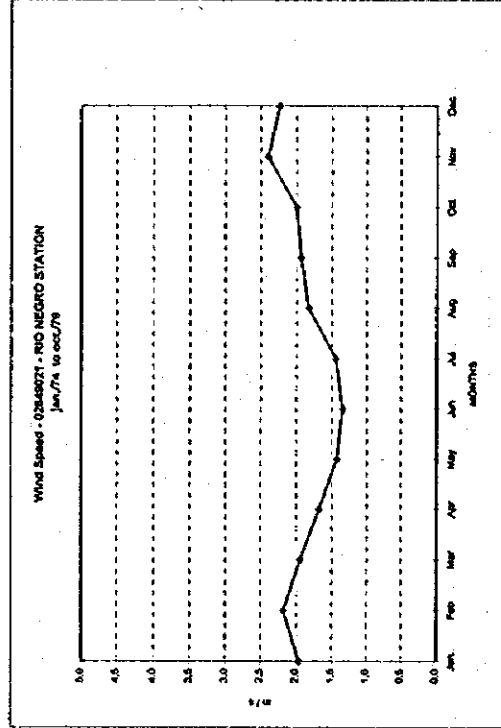
02544026 - SAO MIGUEL DO IGUAÇU STATION
Wind Speed and Direction

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1982	2.6	3.1	2.7	2.6	3.5	2.7	2.7	4.5	5.3	4.4	2.8	2.5	2.9
1983	2.6	2.7	2.2	2.5	2.7	1.9	3.1	3.1	2.2	2.5	2.5	1.8	2.5
1984	2.6	2.7	2.2	2.5	2.7	1.9	3.1	3.1	2.2	2.5	2.5	1.8	2.5
1985	1.7	2.0	1.7	2.8	2.4	2.5	2.3	2.6	2.8	1.9	1.6	1.8	2.2
1986	1.6	1.5	1.9	1.7	1.8	1.5	1.5	1.8	1.9	2.9	2.7	1.4	1.9
1987	1.5	2.3	2.8	2.0	2.0	2.3	2.3	1.7	2.3	1.8	1.7	1.7	2.0
1988	1.6	1.6	1.5	2.1	2.2	2.9	2.0	2.1	2.1	2.1	1.9	2.9	2.1
1989	2.6	1.8	1.4	2.4	2.1	2.9	3.2	3.5	3.7	3.7	3.1	2.4	2.9
1990	2.7	2.2	2.6	2.6	2.6	3.5	3.7	3.5	3.7	3.5	3.8	2.6	3.1
1991	2.9	2.4	2.8	3.2	3.0	3.2	3.3	3.6	3.6	3.9	3.2	2.8	3.2
1992	2.6	3.6	2.8	2.8	3.0	2.8	2.6	3.2	3.2	3.0	2.6	3.0	3.0
1993	2.7	2.5	2.6	3.0	3.8	2.8	2.8	3.2	3.4	3.0	2.7	3.0	3.0
Mean	2.3	2.3	2.5	2.6	2.7	2.7	2.7	2.8	3.1	3.0	2.6	2.3	2.6
Direction	N	N	E	E	E	E	N	E	E	E	N	N	E



02548021 - RIO NEGRO STATION
Wind Speed and Direction

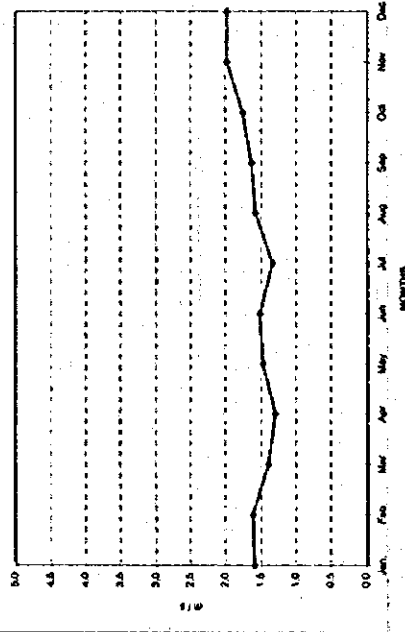
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1974	1.2	1.2	1.3	1.2	1.2	1.3	1.3	1.3	1.7	1.5	1.6	2.1	1.6
1975	1.8	3.6	3.1	2.7	2.1	2.1	2.5	3.7	3.7	3.5	4.2	3.3	3.0
1976	3.8	3.4	2.8	2.2	1.8	1.6	1.5	1.5	1.5	2.1	1.9	1.7	2.2
1977	1.5	1.2	1.5	1.3	1.1	1.0	1.2	1.6	1.3	1.7	1.5	2.3	1.5
1978	1.5	1.6	1.4	1.3	1.2	1.1	1.2	1.4	1.7	1.6	2.0	1.8	1.5
1979	1.0	1.0	1.0	1.4	1.2	1.0	1.0	1.1	1.3	1.3	1.3	1.4	1.4
Mean	2.0	2.2	2.0	1.7	1.4	1.4	1.5	1.8	1.8	2.0	2.4	2.2	1.8
Direction	E	E	E	E	E	E	E	E	E	E	E	E	E



Wind Speed and Direction
02851007 - PORTO UNIAO STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	1.4	1.1	1.2	1.3	1.5	1.8	1.1	1.9	1.2	1.6	2.1	2.1	1.5
1975	1.8	1.8	1.0	1.0	0.8	1.4	1.5	1.3	1.6	1.5	1.8	1.3	1.4
1976	1.4	1.6	1.8	1.5	1.6	1.9	1.3	1.4	1.4	1.9	1.7	2.2	1.6
1977	1.5	1.6	1.4	1.2	1.4	1.5	1.5	1.6	1.5	1.8	1.9	2.4	1.6
1978	1.9	2.0	1.6	1.5	2.1	1.3	1.5	1.7	2.5	2.0	2.4	1.9	1.9
1979													
Mean	1.8	1.6	1.4	1.3	1.5	1.5	1.3	1.6	1.6	1.8	2.0	2.0	1.6
Direction	SE	SE	SE	SE	SE	SE	SE	SE	E	SE	SE	SE	SE

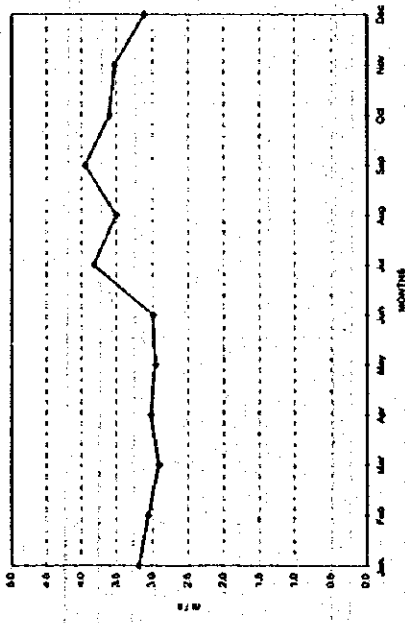
Wind Speed - 02851007 - PORTO UNIAO STATION
Jan.74 to dec.79



Wind Speed and Direction
02851043 - PALMAS STATION

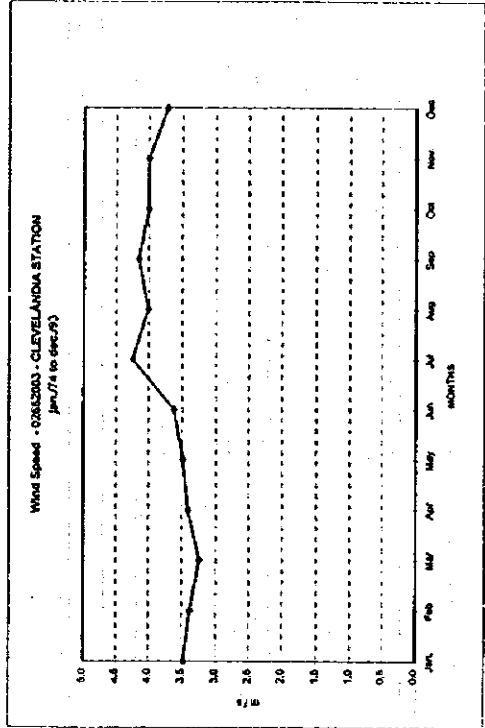
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1976	4.4	4.0	3.4	3.0	3.1	2.9	2.9	2.7	3.6	4.0	4.3	3.7	3.6
1980	3.4	3.2	3.6	4.3	3.2	4.9	4.2	4.7	4.8	4.9	3.7	1.7	3.9
1981	2.5	2.6	2.2	2.3	2.3	2.7	3.4	2.2	2.3	1.9	1.2	1.7	2.3
1982	1.4	1.4	1.3	2.1	2.0	2.2	1.8	2.1	2.1	2.1	1.5	1.9	1.8
1983	2.0	2.1	2.4	1.8	2.3	2.5	3.6	3.2	3.4	4.1	3.1	3.0	2.6
1984	3.0	3.0	3.4	2.7	1.9	2.5	2.8	4.1	3.6	3.1	3.3	2.9	3.0
1985	3.4	3.0	3.1	3.7	2.4	3.5	4.1	3.4	4.7	2.6	3.3	3.0	3.4
1986	3.3	3.3	3.8	3.3	3.2	3.0	3.7	3.0	4.3	3.8	3.6	3.4	3.4
1987	3.3	4.0	3.3	3.6	4.3	3.3	4.8	4.8	4.3	3.8	4.3	3.7	4.0
1988	3.2	3.8	2.8	3.1	2.9	1.5	4.0	3.4	4.2	4.0	3.6	2.7	3.3
1989	2.9	2.7	2.8	2.0	2.7	2.8	3.7	4.3	4.5	3.8	4.3	4.3	3.3
1990	2.1	5.0	2.8	3.0	5.3	3.0	4.0	4.0	4.6	4.1	4.2	4.1	3.7
1991	4.0	2.6	3.2	2.8	3.3	3.2	4.3	3.8	4.8	4.4	3.9	3.0	3.5
1992	3.9	4.9	3.3	3.8	3.8	3.8	6.3	4.0	4.8	3.7	4.8	2.1	4.1
1993	2.7	2.3	3.4	3.1	3.8	3.4	3.8	2.8	4.5	3.8	4.0	4.5	3.6
Mean	3.2	3.1	2.9	3.0	3.0	3.0	3.8	3.5	3.9	3.8	3.5	3.1	3.3
Direction	NE	N	NE	NE	N	N	N	N	NE	N	NE	NE	NE

Wind Speed - 02851043 - PALMAS STATION
Jan.79 to dec.93



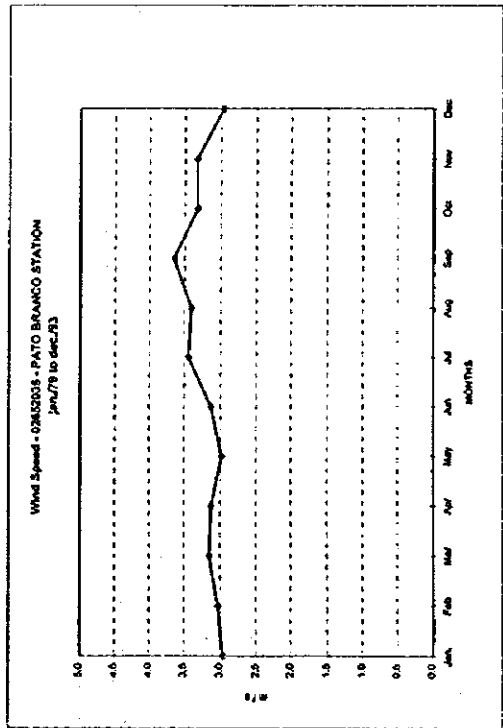
Wind Speed and Direction
02052003 - CLEVELANDIA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	2.5	2.9	2.7	2.4	2.7	3.3	2.8	3.4	2.4	2.8	3.0	3.0	2.8
1975	2.2	2.9	2.7	2.9	2.9	3.0	2.9	3.5	4.4	2.8	3.0	3.0	3.2
1976	2.9	2.9	2.7	2.6	3.1	3.3	4.2	3.0	3.0	4.2	3.5	3.5	3.2
1977	4.0	3.4	3.1	3.5	3.3	3.6	5.0	5.9	4.7	5.2	5.5	5.6	4.4
1978	5.3	4.5	4.4	4.4	3.8	4.4	4.9	5.8	5.8	4.5	5.7	5.6	4.8
1979	3.3	3.3	3.2	3.6	3.0	2.8	3.7	3.4	4.3	3.7	4.1	3.8	3.5
1980	3.5	3.3	3.0	3.7	3.5	3.7	4.3	4.1	4.5	4.4	3.6	3.7	3.8
1981	3.8	3.7	3.3	3.5	3.5	3.5	4.0	3.5	4.0	3.6	3.6	3.5	3.6
1982	3.4	3.5	3.3	3.4	3.7	3.5	3.9	3.9	3.8	4.0	3.4	3.4	3.6
1983	3.5	3.7	3.7	3.3	3.8	3.5	4.2	4.2	3.8	4.3	2.6	3.3	3.7
1984	3.5	3.5	3.4	3.9	3.6	3.7	4.6	4.0	3.6	3.9	3.9	3.8	3.7
1985	3.6	3.2	3.0	3.7	3.2	3.7	4.6	3.9	4.3	3.0	3.6	3.6	3.7
1986	3.4	3.6	3.6	4.0	3.8	4.0	4.1	3.7	4.3	3.0	4.2	3.9	3.9
1987	3.6	3.9	3.2	3.4	3.9	3.5	4.8	4.4	4.5	3.7	4.0	3.6	3.9
1988	3.6	3.5	3.3	3.8	3.1	3.3	4.6	4.1	4.6	4.2	4.9	3.8	3.8
1989	3.6	3.2	3.2	3.3	3.6	3.5	3.9	4.3	4.1	4.2	4.1	4.2	3.8
1990	3.8	3.3	3.5	3.9	3.6	3.7	4.3	4.0	4.7	4.2	4.2	3.9	3.9
1991	3.0	3.0	3.2	3.4	3.7	3.9	4.6	4.3	4.0	4.2	3.9	3.6	3.8
1992	3.5	3.6	3.2	3.3	4.0	4.2	4.6	4.1	3.8	3.5	4.3	3.8	3.9
1993	3.0	3.2	3.3	3.2	4.1	4.1	3.9	3.5	4.0	4.0	4.0	4.2	3.7
Mean	3.5	3.4	3.2	3.4	3.5	3.6	4.3	4.0	4.2	4.0	4.0	4.0	3.7
Direction	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE



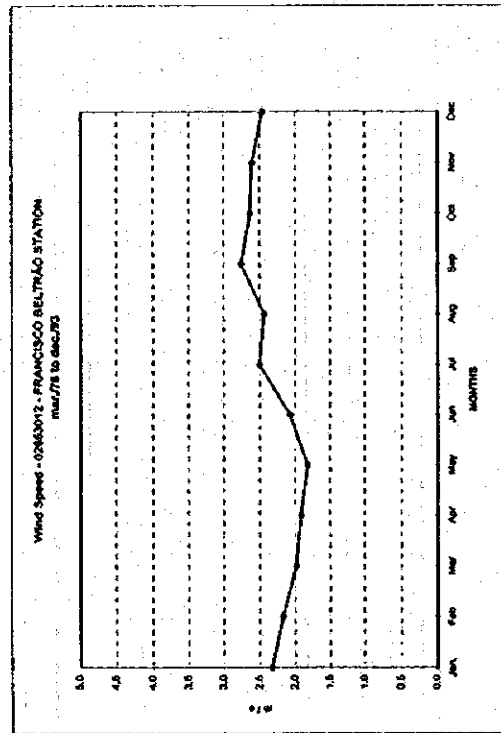
Wind Speed and Direction
02052003 - PATO BRANCO STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1979	1.9	2.2	2.8	3.7	2.8	2.7	2.9	3.1	3.8	2.7	3.1	2.2	3.0
1980	2.1	3.0	2.9	2.9	2.8	2.4	2.4	2.4	2.4	3.0	3.3	3.3	2.9
1981	3.8	3.4	3.7	3.8	3.4	3.2	4.8	5.4	6.6	5.5	5.1	4.6	4.4
1982	4.8	4.6	4.8	4.8	5.8	4.5	6.1	5.9	4.4	3.5	3.0	2.3	4.3
1983	3.2	3.2	2.5	2.9	2.8	2.4	3.0	2.8	3.2	2.8	2.4	1.9	2.7
1984	2.3	2.2	2.2	2.5	2.0	1.7	2.7	2.4	2.4	1.6	2.0	1.7	2.2
1985	1.6	1.2	2.0	2.0	2.0	2.4	3.1	2.3	3.1	2.0	1.6	1.4	2.1
1986	2.0	1.8	2.8	2.1	1.9	2.5	3.0	2.7	2.2	3.0	2.4	1.7	2.3
1987	2.0	3.0	2.6	2.4	2.7	2.7	3.1	2.8	3.2	2.7	2.9	3.0	2.9
1988	3.2	3.6	2.8	2.8	2.1	3.7	3.8	3.5	4.0	3.5	4.1	3.8	3.4
1989	3.6	3.6	3.6	4.0	4.1	2.5	3.6	3.7	4.0	4.0	4.2	3.8	3.7
1990	3.6	3.0	3.0	3.7	3.8	4.0	3.6	3.9	3.7	3.8	3.4	4.0	3.7
1991	3.5	3.3	2.8	2.9	3.1	3.5	2.4	3.6	3.2	3.7	3.0	3.0	3.2
1992	3.3	3.4	3.4	3.4	3.9	3.6	4.3	4.8	4.4	4.4	4.0	4.8	4.1
1993	3.7	3.9	3.9	3.7	4.5	4.0	2.3	4.1	4.1	4.1	4.5	4.5	3.9
Mean	3.0	3.0	3.2	3.1	3.0	3.1	3.4	3.4	3.7	3.3	3.3	3.0	3.2
Direction	NE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE



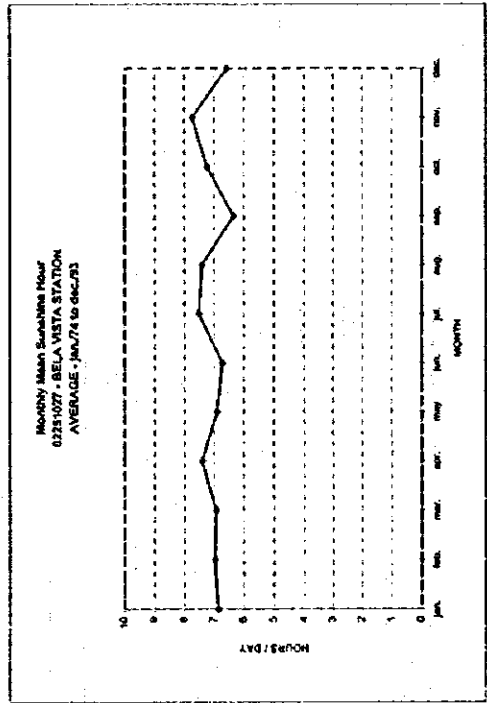
Wind Speed and Direction
02850012 - FRANCISCO BELTRAO STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1978	3.0	3.6	3.1	3.0	2.4	1.2	1.9	3.3	3.1	2.6	3.4	3.7	2.3
1979	3.9	2.9	2.3	3.5	2.3	2.4	3.5	3.4	5.1	4.2	5.1	5.1	3.5
1980	2.0	1.1	1.3	1.2	1.4	2.5	3.3	2.1	3.4	2.1	2.0	1.9	2.8
1981	3.0	3.0	2.7	2.0	1.7	1.9	1.6	1.8	2.0	2.4	3.0	2.2	2.2
1982	2.1	2.4	1.9	1.9	2.3	2.4	2.3	2.9	3.1	3.5	2.0	2.0	2.5
1984	1.9	1.7	1.8	1.6	1.6	1.5	2.6	2.3	2.4	2.6	1.8	2.0	2.0
1985	2.8	2.0	2.0	2.0	1.9	2.4	2.6	2.2	2.7	2.4	2.4	2.2	2.2
1986	2.1	2.0	1.6	1.9	2.0	1.7	1.8	2.1	2.5	2.6	3.1	2.5	2.2
1987	1.8	2.0	1.9	1.7	2.0	1.7	2.8	2.2	2.4	2.0	1.8	2.2	2.0
1988	1.7	2.2	2.1	2.1	1.7	2.9	2.7	2.6	3.2	2.8	3.0	2.3	2.4
1989	2.2	1.5	1.6	1.6	1.6	1.8	2.1	2.2	2.3	3.0	2.8	3.5	2.2
1990	2.1	2.7	2.0	2.1	1.9	2.1	2.5	2.9	3.0	2.3	2.6	2.1	2.3
1991	2.2	1.9	2.1	1.6	1.5	2.0	2.8	2.5	2.4	2.5	2.2	2.0	2.1
1992	2.3	1.9	1.7	2.0	1.8	1.6	3.3	2.1	2.2	2.1	2.4	1.9	2.0
1993	1.8	1.8	1.9	1.4	1.8	1.6	2.2	1.9	2.2	1.8	2.1	2.3	1.9
Mean	2.3	2.2	2.0	1.9	1.8	2.1	2.5	2.4	2.8	2.6	2.6	2.5	2.3
Direction	NE	NE	NE	NE	SW	SW	NE	NE	NE	NE	NE	NE	NE



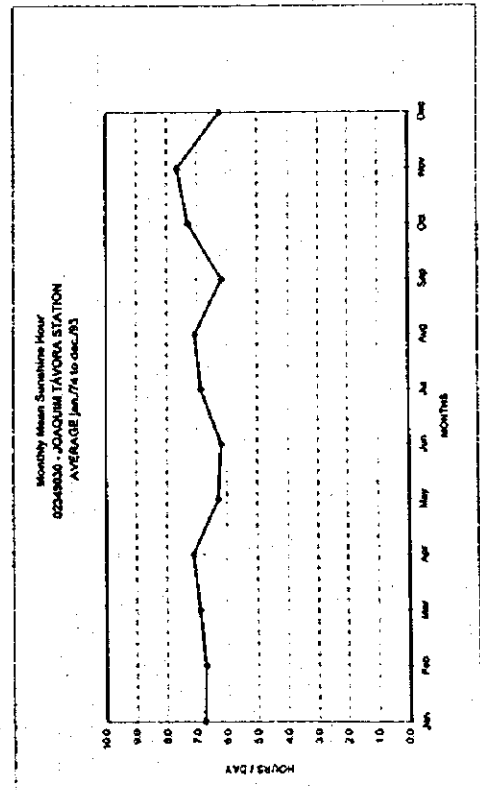
Sunshine Hour
02251027 - BELA VISTA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	4.3	7.4	5.4	7.1	5.2	4.6	5.2	7.2	7.2	6.3	5.6	2.7	5.6
1975	6.1	5.2	6.0	7.2	7.3	7.3	7.3	5.2	5.4	6.3	5.6	5.8	6.0
1976	5.7	6.6	7.9	6.8	5.8	6.3	7.3	7.4	4.8	7.3	7.9	7.0	6.7
1977	4.9	6.5	7.4	7.3	6.0	6.7	6.5	7.0	7.0	6.1	6.5	6.8	7.2
1978	7.7	9.3	7.4	9.8	7.9	7.3	7.2	7.5	7.0	6.1	7.0	7.7	7.8
1979	6.1	8.2	7.7	7.1	6.4	6.0	6.5	6.3	6.0	6.6	7.6	4.4	7.1
1980	7.6	8.8	7.7	7.2	6.8	7.5	6.6	7.2	5.9	7.5	7.8	7.3	7.2
1981	6.5	7.9	7.8	6.0	6.1	6.6	6.2	7.0	5.6	6.3	6.3	5.9	7.4
1982	8.3	7.0	6.3	8.7	7.5	5.7	6.0	6.2	7.3	6.9	6.1	5.5	7.0
1983	6.6	6.6	7.3	6.1	4.7	4.3	6.6	6.8	4.1	6.5	8.4	6.5	6.4
1984	8.0	9.0	6.2	6.8	7.4	8.5	6.5	6.9	7.5	8.4	7.4	6.1	7.5
1985	8.6	8.6	6.5	7.1	8.3	7.7	8.3	7.4	9.0	8.0	8.6	7.9	7.9
1986	7.6	6.6	7.1	6.7	5.7	6.6	6.9	5.6	6.8	8.5	7.4	5.6	7.1
1987	6.6	6.0	6.6	6.8	6.4	6.6	6.0	8.2	7.8	6.0	6.4	7.9	7.0
1988	8.0	5.2	6.9	6.0	4.6	7.0	6.0	6.9	7.8	7.4	9.2	7.5	7.2
1989	4.2	5.9	7.5	7.2	8.0	6.5	7.0	7.1	6.6	6.0	6.1	6.9	7.1
1990	5.4	8.4	6.8	7.7	6.6	6.0	6.0	6.0	6.0	6.3	7.6	6.6	6.8
1991	7.0	7.0	5.6	7.3	8.3	6.0	6.1	7.4	6.2	7.2	6.2	6.3	7.2
1992	8.2	7.1	5.2	6.5	4.9	6.3	6.1	6.5	6.6	6.1	8.0	9.0	6.6
1993	6.6	4.5	7.7	8.4	7.0	6.1	6.9	6.7	5.1	6.7	8.9	6.5	6.7
Mean	6.9	7.0	6.8	7.4	6.9	6.7	7.5	7.4	6.4	7.2	7.7	6.6	7.1



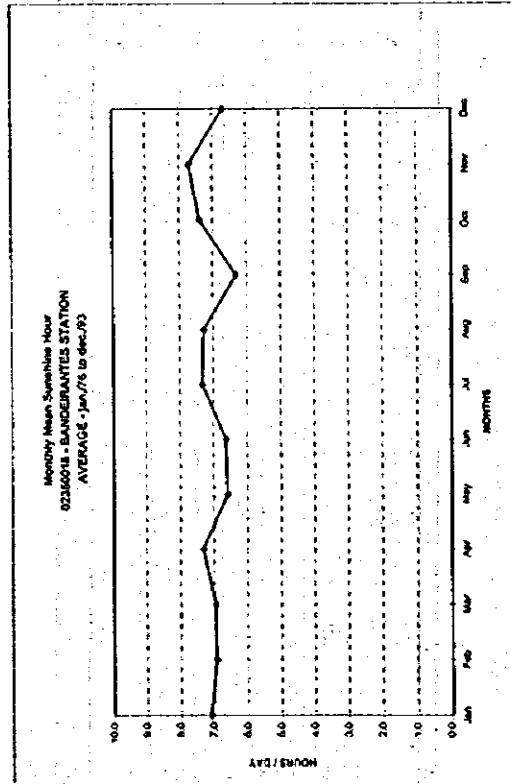
Sunshine Hour
02249030 - JOAQUIM TAVORRA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	5.0	6.3	6.0	7.6	7.6	6.0	7.6	7.2	7.1	6.9	6.3	4.4	7.0
1975	6.9	5.6	7.6	7.7	6.6	6.4	6.1	7.6	6.3	6.4	6.7	6.3	6.5
1976	5.1	2.6	6.5	5.8	4.5	5.2	5.9	6.4	4.8	7.0	6.7	5.7	5.7
1977	5.4	6.3	7.0	6.4	6.4	5.4	6.8	7.2	6.7	7.8	5.6	6.7	6.6
1978	7.2	8.5	6.6	6.1	6.8	6.1	5.8	6.6	6.8	6.2	7.3	7.9	7.2
1979	6.1	6.0	8.2	7.0	5.3	6.9	6.0	7.0	5.2	7.0	7.5	4.4	6.7
1980	6.9	6.0	7.6	7.1	5.9	6.1	5.7	6.5	5.7	7.2	7.9	5.9	6.5
1981	5.8	6.2	7.6	7.8	7.8	6.1	6.6	7.1	7.2	5.9	6.0	6.2	7.0
1982	6.9	6.7	6.5	6.3	6.4	4.4	6.5	6.6	7.6	5.9	5.2	5.3	6.3
1983	7.0	6.5	6.5	4.9	3.7	4.1	6.2	6.5	4.3	6.6	6.0	5.7	6.0
1984	8.2	10.1	6.2	5.6	7.0	8.2	7.9	6.6	7.1	8.5	7.0	6.0	7.4
1985	7.6	6.5	6.1	6.1	6.8	7.3	6.2	6.8	7.2	6.8	9.3	6.2	7.7
1986	7.7	6.0	7.2	6.2	6.8	6.7	6.0	6.2	6.2	6.7	7.7	5.0	7.0
1987	6.7	5.7	6.7	6.5	4.8	6.1	6.0	7.5	6.5	7.3	7.3	7.6	6.9
1988	7.6	7.6	4.4	7.3	6.7	4.6	7.0	6.1	6.6	7.2	7.3	6.0	7.0
1989	5.6	5.4	7.7	7.6	7.9	6.6	6.8	7.4	6.5	6.7	6.5	6.3	7.1
1990	4.9	6.6	6.6	6.6	7.4	7.1	5.7	5.4	6.5	6.0	7.5	6.7	6.7
1991	7.5	6.1	6.0	7.9	7.7	6.9	7.0	6.8	5.8	7.0	6.3	6.6	7.0
1992	6.7	7.2	6.1	6.4	5.0	5.8	6.3	6.3	5.0	6.6	6.6	6.2	6.5
1993	6.3	4.4	7.8	6.1	6.7	5.6	6.6	6.6	6.0	4.3	6.6	6.4	6.7
Mean	6.8	6.7	6.9	7.1	6.3	6.2	6.9	7.1	6.2	7.3	7.7	6.3	6.9



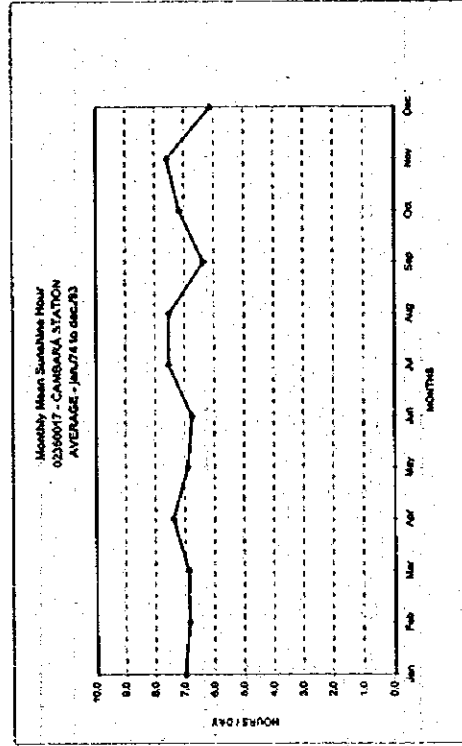
Sunshine Hour
02350018 - BANDEIRANTES

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1976	6.2	5.9	7.3	6.5	4.9	5.6	6.8	6.8	7.8	7.8	6.3	6.3	6.6
1977	4.8	8.8	7.6	6.9	7.0	6.4	6.6	7.6	7.1	7.9	5.9	6.9	7.1
1978	7.9	6.8	7.1	6.5	7.6	7.0	7.8	7.1	6.8	6.6	7.2	6.0	7.6
1979	8.3	8.1	8.4	7.1	6.1	8.2	8.2	8.0	5.9	7.1	7.4	4.8	7.2
1980	7.4	8.1	7.4	6.6	6.6	7.3	6.4	7.2	5.8	7.2	7.6	6.9	6.9
1981	6.5	6.4	7.7	6.4	6.4	6.4	7.6	7.8	7.3	5.7	6.4	6.1	7.5
1982	8.2	7.2	6.3	6.1	7.0	5.3	7.2	6.4	7.7	7.3	6.1	5.0	6.9
1983	7.0	6.5	7.9	5.9	4.3	4.2	6.1	4.7	4.2	6.3	7.6	6.1	6.2
1984	8.2	9.2	6.3	6.7	6.9	7.6	8.1	6.9	6.4	7.4	6.0	7.4	7.4
1985	8.2	7.1	6.0	6.9	7.4	7.6	8.3	8.2	7.2	8.7	8.9	8.8	7.8
1986	7.7	5.0	6.6	6.4	5.6	8.3	7.6	5.8	6.5	6.9	7.5	4.8	7.0
1987	6.8	4.6	6.6	6.4	5.2	6.9	6.3	6.1	6.1	8.1	6.0	7.9	7.0
1988	8.2	5.9	7.4	5.7	4.6	7.2	6.3	6.9	7.3	7.0	6.0	7.4	7.2
1989	6.0	5.7	7.8	7.3	7.2	6.4	7.7	7.3	6.9	6.2	7.9	6.7	7.1
1990	5.6	5.9	6.3	7.6	7.2	6.1	5.7	6.5	5.0	7.8	6.4	7.6	6.6
1991	7.6	7.8	4.6	7.9	8.1	6.2	6.1	6.4	5.8	6.3	6.7	6.5	7.0
1992	8.2	6.8	4.7	6.9	5.0	6.2	6.1	6.4	5.1	4.5	7.4	6.4	6.4
1993	6.3	4.5	7.8	8.2	7.0	5.7	6.8	6.8	4.6	6.2	6.9	6.4	6.6
Mean	7.1	6.9	7.0	7.3	6.6	6.6	7.3	7.3	6.3	7.4	7.7	6.7	7.0



Sunshine Hour
02350017 - CAMBARA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	6.4	7.4	5.6	7.7	6.6	5.9	6.6	7.9	7.3	6.8	6.5	4.1	7.1
1975	7.7	6.2	8.0	8.1	7.4	7.4	7.0	8.8	6.6	6.6	5.5	4.5	7.1
1976	6.9	6.2	7.4	6.3	5.4	6.9	7.1	7.2	5.4	6.6	5.1	4.7	6.4
1977	6.1	6.7	7.5	7.0	7.6	6.2	7.7	6.6	7.0	7.7	6.7	6.1	7.1
1978	7.9	8.0	6.7	8.3	7.4	7.3	7.1	7.2	7.0	8.1	7.6	6.2	7.6
1979	8.2	8.4	6.7	7.4	6.2	6.6	6.5	4.1	5.6	7.4	7.8	4.2	7.2
1980	7.4	6.9	7.1	7.5	7.0	7.3	6.5	7.2	6.1	7.3	7.5	6.2	7.0
1981	6.1	6.2	6.7	8.2	6.7	6.7	7.9	6.0	7.2	4.6	6.3	5.6	7.3
1982	7.9	6.9	6.2	6.8	7.5	5.8	7.7	6.8	7.5	7.3	6.0	5.0	7.0
1983	7.6	6.1	6.8	5.9	4.2	6.8	6.2	8.9	4.4	6.1	7.8	5.1	6.1
1984	6.6	6.1	6.1	6.3	7.6	6.3	6.3	6.8	7.2	6.4	7.2	5.8	7.6
1985	7.3	6.8	6.3	7.0	9.2	7.7	8.4	6.4	7.2	6.0	6.9	6.8	7.8
1986	7.4	6.7	6.5	8.4	5.7	6.2	7.8	5.8	6.6	6.3	6.9	6.0	6.9
1987	6.7	4.9	6.6	6.3	4.8	6.9	6.7	6.1	6.0	6.1	6.1	7.7	6.9
1988	6.3	5.0	7.7	5.8	4.9	6.6	6.3	7.4	6.8	6.8	7.3	7.1	7.1
1989	4.9	5.5	7.8	7.6	6.4	6.3	7.6	7.8	6.5	6.2	7.6	6.4	7.1
1990	5.5	6.9	6.5	7.5	7.4	6.2	6.1	6.0	6.0	6.0	6.9	6.0	6.9
1991	7.6	7.2	4.4	7.8	6.3	6.3	6.5	7.0	6.2	7.0	6.0	6.4	7.1
1992	8.1	7.1	4.8	6.4	5.2	6.5	6.2	6.8	4.7	6.3	6.0	6.6	6.4
1993	6.6	4.4	6.9	6.1	6.9	6.0	6.8	6.8	4.7	6.4	6.6	6.5	6.6
Mean	7.0	6.6	6.9	7.4	6.6	6.8	7.5	7.5	6.4	7.2	7.6	6.1	7.0



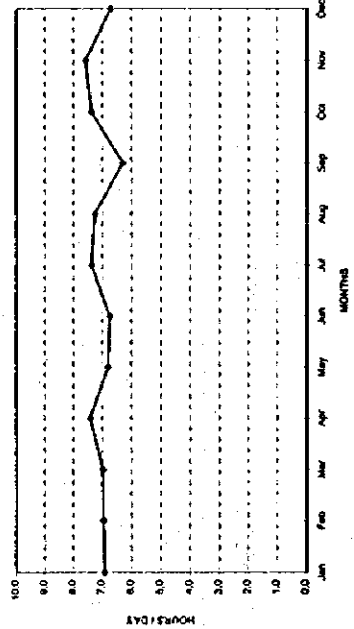
INSOLATION (Hours / Day)
02351003 - LONDORINA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1976	5.3	6.4	7.1	7.1	6.9	5.6	7.2	7.1	4.4	7.4	7.4	6.1	6.9
1977	4.8	6.1	7.0	6.8	7.7	6.5	8.2	7.3	6.1	8.1	8.1	5.4	6.6
1978	7.0	8.4	7.1	8.5	6.1	6.6	7.1	7.0	6.8	8.5	8.0	7.9	7.4
1979	8.1	8.2	8.2	7.4	6.8	8.2	4.8	8.1	5.8	7.2	7.6	4.8	7.1
1980	7.1	8.2	8.0	7.5	6.9	7.4	6.9	6.6	5.8	7.7	7.5	6.8	7.1
1981	5.8	7.6	8.1	8.3	8.8	6.9	5.3	7.8	7.2	5.3	7.8	5.8	7.1
1982	8.3	6.6	6.1	6.8	7.5	5.5	7.7	6.2	7.4	6.0	5.4	9.8	6.9
1983	6.4	6.2	6.7	5.8	7.8	4.2	8.1	8.5	4.3	6.3	8.0	6.2	6.2
1984	6.6	9.2	6.6	6.6	7.6	6.3	8.2	6.7	7.7	6.0	7.3	5.8	7.5
1985	6.6	6.7	6.4	7.0	6.2	7.8	8.4	8.7	7.4	8.4	6.9	9.1	7.8
1986	7.5	5.7	6.8	6.6	5.8	4.9	7.4	5.8	6.9	6.4	7.8	5.2	7.0
1987	6.7	5.2	6.9	7.1	5.5	6.7	8.2	8.1	8.1	6.8	7.8	7.2	7.1
1988	7.5	4.7	7.6	5.6	4.3	7.0	8.5	8.8	7.4	7.2	9.0	6.7	7.1
1989	4.2	5.3	7.5	7.6	6.4	6.8	7.7	7.4	7.1	9.2	6.3	6.7	7.2
1990	5.4	9.2	6.3	7.9	7.2	5.9	6.0	6.4	6.4	7.4	6.0	7.0	6.6
1991	7.3	6.2	5.3	7.6	6.0	6.2	8.2	6.9	6.2	6.9	6.3	6.8	7.2
1992	6.8	7.3	4.8	6.4	4.5	8.3	5.8	6.5	5.6	6.6	7.7	6.7	6.6
1993	6.4	4.4	7.0	7.9	6.9	5.7	6.2	6.6	4.6	6.3	8.4	6.8	6.5
Mean	6.9	7.0	7.0	7.4	6.8	6.6	7.4	7.3	6.3	7.4	7.6	6.7	7.0

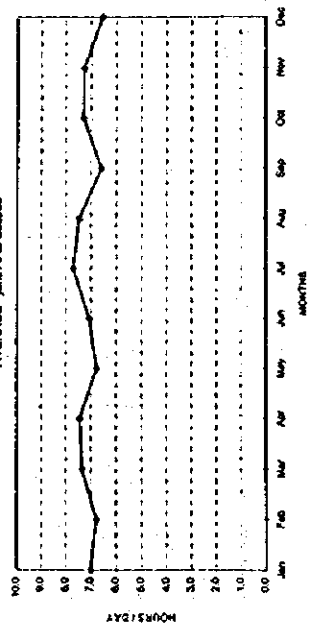
Sunshine Hour
02351006 - APUCARANA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1976	5.5	6.6	7.7	7.3	5.9	6.3	7.6	7.5	4.5	7.6	7.4	6.6	6.7
1977	4.9	7.9	7.2	7.6	7.0	6.9	6.5	7.8	7.0	6.6	5.8	6.9	7.2
1978	7.9	9.4	6.8	9.7	6.3	6.9	7.4	7.3	7.3	7.9	7.5	6.8	7.8
1979	8.1	7.7	8.1	7.2	6.6	6.7	6.5	7.8	6.2	7.0	7.4	5.1	7.2
1980	7.2	6.4	8.0	7.8	6.8	7.3	6.9	4.9	6.7	7.3	7.3	6.9	7.0
1981	6.0	6.3	6.3	7.6	6.8	6.8	6.8	7.7	7.3	5.5	7.4	5.8	7.3
1982	8.6	6.8	6.4	6.1	7.4	5.9	7.8	6.2	7.3	6.9	6.4	5.7	6.9
1983	8.4	6.3	6.8	5.8	5.1	4.1	6.2	8.4	4.3	5.7	8.0	6.3	6.2
1984	8.4	6.9	6.6	6.6	7.4	8.2	8.3	6.7	7.8	7.9	6.3	5.7	7.4
1985	6.9	6.9	6.4	6.8	6.1	6.1	6.2	6.3	7.3	5.3	6.6	6.4	7.5
1986	6.6	5.5	6.9	6.2	6.8	6.9	7.4	5.7	6.6	6.3	6.8	5.6	6.9
1987	6.2	6.0	6.5	7.1	5.3	7.4	6.3	7.8	6.1	6.0	7.7	7.4	7.0
1988	7.0	5.1	7.8	5.8	4.4	7.4	8.5	6.8	7.8	7.3	6.6	7.3	7.2
Mean	7.0	6.8	7.4	7.5	6.8	7.1	7.7	7.5	6.6	7.3	7.3	6.6	7.1

Monthly Mean Sunshine Hour
02351003 - LONDORINA STATION
AVERAGE - Jan/75 to dec/93

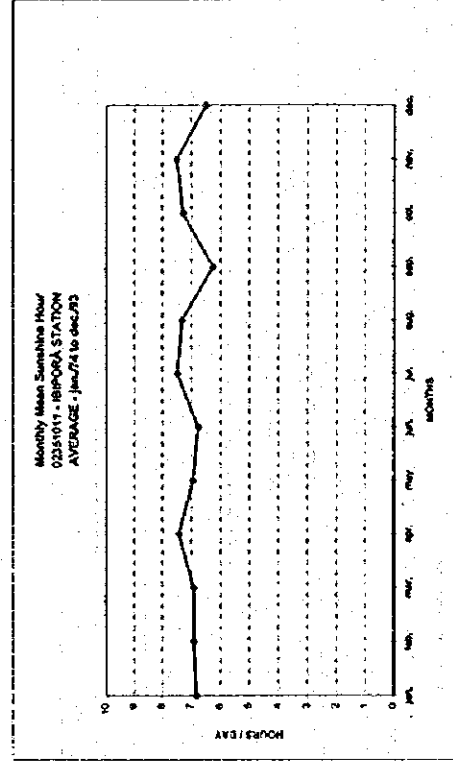


Monthly Mean Sunshine Hour
02351006 - APUCARANA STATION
AVERAGE - Jan/78 to dec/88



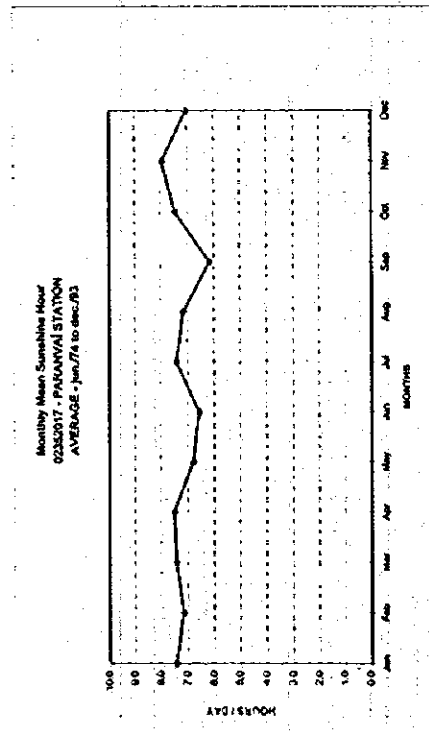
Sunshine Hour
02351011 - IBIPORA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	5.0	7.9	5.2	8.0	9.1	6.3	9.0	6.9	7.1	6.7	9.0	4.0	7.0
1975	7.8	5.5	7.7	8.1	7.4	7.0	7.7	6.1	5.7	6.4	5.2	5.6	6.8
1976	5.3	6.1	7.3	7.0	5.7	6.2	7.1	7.4	4.7	7.4	7.7	5.8	6.5
1977	4.8	6.4	7.4	7.2	7.9	6.5	6.5	7.7	6.8	6.0	5.4	6.6	7.1
1978	4.8	6.4	7.0	9.5	8.0	7.0	7.2	7.1	4.4	8.1	7.9	7.9	7.8
1979	7.8	6.0	8.5	7.3	6.7	6.1	6.5	6.1	5.9	7.1	7.4	4.3	7.1
1980	7.2	6.9	7.9	7.6	6.9	7.3	6.6	7.4	6.4	7.7	7.7	6.9	7.4
1981	6.9	7.8	6.6	6.2	8.9	6.0	6.2	7.7	7.1	5.0	7.9	5.5	7.3
1982	6.3	6.9	6.1	6.9	7.5	5.4	7.7	6.5	7.5	6.8	5.6	5.5	6.9
1983	6.5	6.2	6.6	5.7	4.7	4.3	6.2	6.5	4.2	6.2	8.0	6.1	6.1
1984	6.2	6.9	6.3	6.3	7.6	6.4	6.5	6.5	7.5	6.1	7.5	6.0	7.5
1985	6.3	6.5	6.3	6.7	8.2	7.0	8.2	6.6	7.2	8.4	6.6	8.0	7.8
1986	7.8	5.4	5.6	6.4	5.7	6.1	7.4	5.8	6.7	8.5	7.1	5.6	7.0
1987	6.5	6.6	6.7	6.6	6.4	6.4	7.0	6.2	7.6	6.1	6.5	6.0	7.0
1988	7.6	4.6	7.7	5.6	4.3	7.4	6.5	6.8	7.6	7.4	9.0	7.6	7.2
1989	4.3	5.4	7.3	7.3	8.2	6.4	7.7	7.1	6.7	6.9	8.1	6.5	7.0
1990	5.2	6.7	6.3	7.6	7.0	5.9	5.9	6.4	6.3	7.4	5.9	7.3	6.7
1991	7.5	8.1	5.1	7.4	6.0	6.3	6.4	5.9	6.2	7.0	6.4	6.7	7.2
1992	6.7	7.1	4.6	6.5	4.5	6.3	5.8	6.4	5.5	6.4	7.3	6.7	6.5
1993	6.2	4.7	7.3	6.2	6.6	5.9	6.4	6.9	4.8	6.7	6.6	6.6	6.6
Mean	6.8	6.9	6.8	7.4	6.6	6.6	7.5	7.3	6.3	7.3	7.5	6.5	7.0



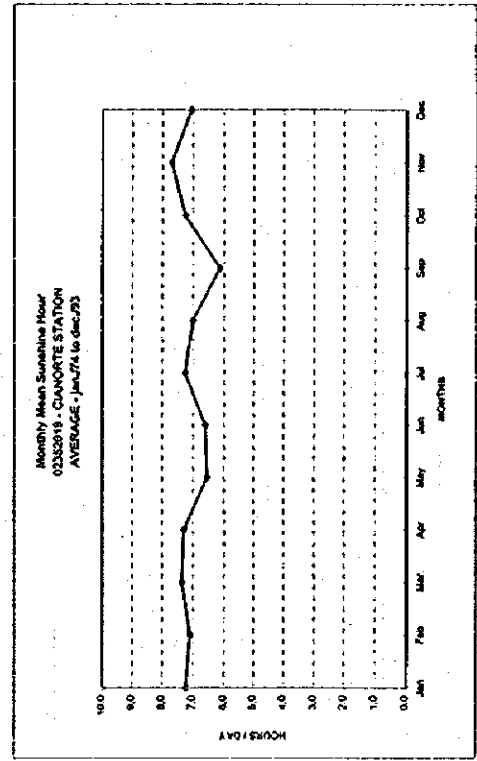
Sunshine Hour
02352017 - PARAMARAI STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	6.0	5.9	7.1	7.3	7.1	6.0	8.4	6.9	7.1	7.1	9.2	6.6	7.2
1975	6.5	6.9	7.7	7.4	5.7	6.0	7.2	7.9	4.8	7.8	7.7	6.6	6.9
1976	5.0	6.1	7.5	7.9	7.2	6.7	7.1	6.4	6.3	5.6	7.0	7.0	6.8
1977	6.2	6.6	7.7	6.5	6.0	6.7	7.5	7.0	6.6	7.5	6.1	8.4	6.0
1978	6.2	6.5	7.9	6.9	6.9	6.4	6.6	6.3	6.3	7.2	6.7	4.9	7.4
1979	6.4	6.4	6.7	7.2	6.6	6.6	6.4	6.6	5.4	7.7	7.5	7.5	7.1
1980	6.9	6.7	6.6	6.0	6.0	6.4	6.6	7.5	7.0	5.7	7.8	5.7	7.3
1981	6.4	6.3	6.2	9.1	7.8	4.9	6.0	6.7	7.0	7.2	5.9	6.1	7.0
1982	6.6	6.2	7.6	6.1	5.1	3.7	5.9	6.3	4.0	6.4	6.6	7.6	6.4
1983	6.5	6.1	6.6	7.3	7.1	7.6	6.4	6.4	7.5	6.5	7.2	6.3	7.5
1984	6.4	6.3	6.7	7.1	6.0	7.9	6.2	7.8	7.3	6.5	9.2	6.7	6.0
1985	6.0	6.0	7.6	6.4	5.7	6.4	7.2	5.6	7.0	6.4	7.4	6.7	7.2
1986	6.9	6.3	4.9	6.9	5.1	7.1	7.9	7.9	6.6	6.6	6.7	6.9	7.1
1987	6.4	5.7	8.0	6.2	4.4	7.1	6.5	6.7	6.6	7.5	6.3	7.2	7.3
1988	6.4	6.1	7.8	7.6	6.1	6.5	7.8	7.0	6.7	6.2	6.6	6.6	7.2
1989	5.6	6.9	7.1	7.8	6.3	6.0	6.0	6.4	6.3	7.6	7.0	7.6	6.9
1990	7.2	9.2	6.3	7.2	7.7	5.9	6.3	7.3	5.7	6.4	6.6	7.0	7.3
1991	6.9	7.8	6.0	6.5	5.0	6.6	6.0	6.2	6.4	6.8	7.8	6.6	6.8
1992	7.6	5.4	7.4	6.1	6.3	6.0	6.0	5.4	7.0	5.4	7.3	9.2	6.9
1993	7.4	7.2	7.4	7.5	6.8	6.6	7.4	7.2	6.2	7.5	7.9	7.0	7.2
Mean	6.8	6.9	6.8	7.4	6.6	6.6	7.5	7.3	6.3	7.3	7.5	6.5	7.0



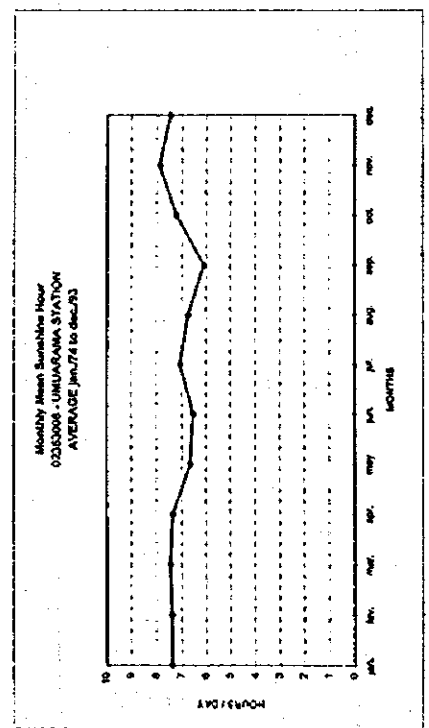
Sunshine Hour
02352019 - CUMORTE STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	5.2	7.5	6.1	6.2	6.1	6.7	7.6	6.6	7.2	7.2	9.2	6.1	6.5
1975	6.2	6.6	7.2	7.2	7.3	8.1	7.2	7.2	4.1	7.9	8.2	7.0	6.7
1976	5.9	7.3	7.5	7.3	8.1	8.9	8.1	6.9	6.7	6.5	6.6	7.3	7.2
1977	4.8	6.1	7.0	8.0	8.3	8.5	7.2	7.5	6.9	7.9	8.1	8.2	6.0
1978	6.6	9.4	7.9	8.6	8.4	8.4	6.5	7.9	6.1	7.2	8.2	9.1	7.3
1979	8.0	8.4	8.1	8.6	8.4	8.7	8.0	6.2	5.3	7.6	7.2	7.8	6.9
1980	8.1	8.1	8.6	7.9	7.9	6.6	6.4	6.6	7.5	7.2	5.9	7.4	7.3
1981	6.7	6.6	6.7	7.0	7.0	7.9	4.9	7.6	6.4	7.0	6.5	4.8	6.5
1982	6.8	6.5	7.2	6.2	4.5	3.6	5.4	6.3	3.8	5.6	8.1	6.9	6.0
1983	6.8	6.5	7.2	6.2	4.5	3.6	5.4	6.3	3.8	5.6	8.1	6.9	6.0
1984	7.9	8.7	8.3	8.9	7.0	7.2	8.5	6.2	7.8	7.2	8.1	6.6	7.2
1985	9.5	5.8	6.6	6.8	6.8	7.7	7.9	7.4	7.0	6.4	6.7	6.0	7.7
1986	7.6	5.6	7.0	7.7	5.7	6.0	7.5	5.9	7.2	6.3	7.4	6.4	7.1
1987	6.9	8.7	9.1	7.2	4.8	6.6	7.7	7.1	6.5	6.5	8.3	8.1	7.1
1988	7.1	6.2	7.5	5.4	4.2	7.3	6.9	8.4	8.6	7.2	6.2	7.3	7.1
1989	5.3	6.6	7.8	7.3	8.4	6.7	7.6	7.0	8.4	6.1	6.9	6.7	7.1
1990	5.3	6.1	7.0	7.0	8.5	8.1	5.9	6.6	6.3	7.3	7.1	7.6	6.9
1991	7.6	9.0	8.9	7.8	7.4	5.9	6.2	6.6	5.7	6.3	6.2	6.9	7.2
1992	8.8	7.4	8.4	6.4	4.6	6.1	5.9	6.1	5.9	6.7	7.6	8.3	6.8
1993	8.8	6.6	7.9	8.2	7.2	6.3	5.9	6.9	4.9	7.0	6.0	7.5	6.9
Mean	7.2	7.1	7.4	7.3	6.6	6.6	7.3	7.0	6.1	7.3	7.7	7.1	7.0



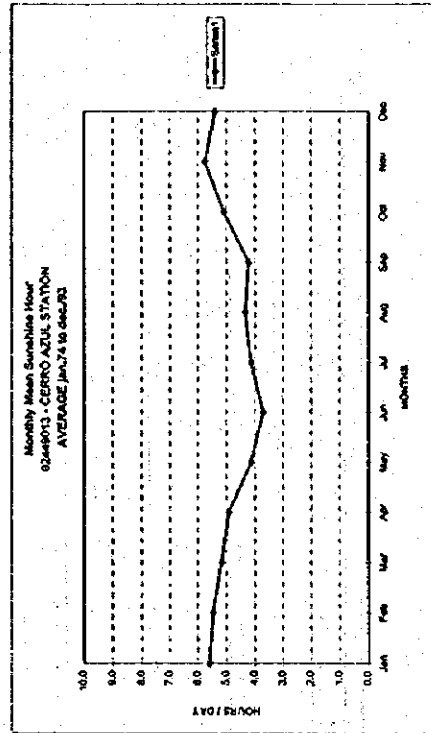
Sunshine Hour
02353009 - UMUPOONA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	5.3	7.0	6.1	6.0	6.0	6.0	7.3	6.2	7.0	7.0	6.2	6.4	7.0
1975	7.4	5.9	6.8	7.0	6.7	6.7	7.9	6.7	4.8	5.9	7.4	6.5	6.8
1976	6.1	6.1	6.0	7.7	5.9	6.2	6.7	6.9	4.9	7.0	6.0	7.3	7.0
1977	4.7	6.6	7.5	6.4	7.7	6.9	7.9	6.1	6.6	6.3	5.6	7.3	7.1
1978	6.7	9.4	8.2	9.5	8.2	6.6	7.0	7.9	6.5	7.9	7.5	6.8	8.0
1979	9.0	8.3	8.3	6.5	6.1	6.3	6.1	7.7	6.2	6.9	6.4	5.9	7.3
1980	8.4	6.4	6.8	7.5	6.7	6.9	5.4	6.1	5.8	7.1	7.0	7.6	7.0
1981	7.1	7.1	9.0	7.7	6.0	6.2	8.3	7.1	6.3	5.8	7.5	5.7	7.3
1982	9.6	6.2	6.1	8.9	7.8	4.6	7.8	6.4	6.3	6.9	5.1	7.1	6.9
1983	6.6	6.3	7.4	6.4	4.5	3.3	4.5	7.5	4.0	6.5	6.6	6.3	6.1
1984	6.1	8.7	6.4	7.0	6.8	6.9	6.6	6.0	7.7	7.6	6.6	6.9	7.3
1985	6.6	6.5	6.9	6.7	6.0	6.0	7.0	7.1	6.9	6.3	6.9	6.4	7.8
1986	6.2	4.1	7.9	7.6	5.6	6.8	7.3	5.9	6.9	6.0	7.3	7.1	7.0
1987	7.3	7.2	8.9	6.7	5.0	7.1	7.2	7.2	6.3	6.4	6.1	6.1	7.1
1988	7.9	6.5	7.7	5.8	4.2	7.2	6.6	7.9	7.0	7.5	6.6	7.3	7.3
1989	4.0	6.2	7.6	7.2	6.3	6.5	7.6	7.4	6.4	9.0	8.9	7.4	7.2
1990	5.4	6.5	6.7	7.6	6.2	6.3	6.1	6.0	6.4	7.4	6.4	6.7	7.0
1991	6.2	6.0	7.4	6.1	7.3	6.0	6.0	7.0	5.8	6.6	6.9	7.9	7.9
1992	6.9	6.3	6.1	6.7	4.3	5.7	5.7	5.9	6.0	6.6	6.0	6.4	6.9
1993	6.6	6.6	6.3	6.7	6.9	6.4	5.2	6.2	4.4	6.8	6.8	7.3	6.7
Mean	7.4	7.4	7.4	7.4	6.7	6.5	7.1	6.8	6.1	7.2	7.9	7.6	7.1



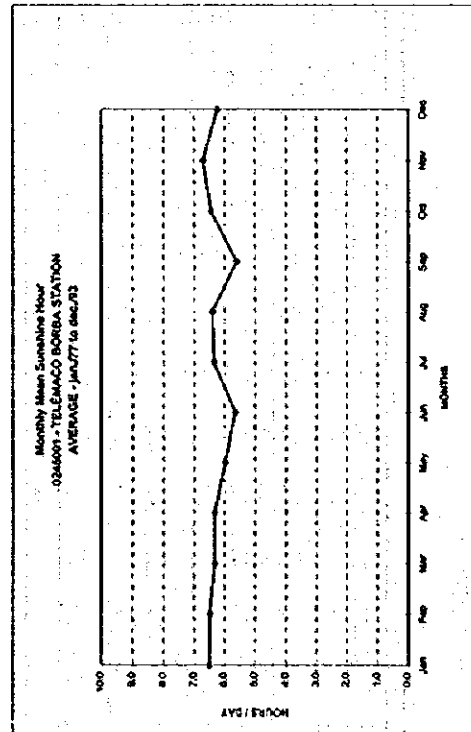
Sunshine Hour
02489013 - CERRO AZUL STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	4.6	6.6	4.8	4.7	4.3	5.0	4.3	4.3	5.1	4.3	5.5	7.6	5.0
1975	5.6	4.7	4.6	4.7	3.1	2.5	4.6	3.2	3.7	4.2	4.3	4.0	4.0
1976	4.2	5.4	4.9	4.1	2.4	3.3	3.1	3.9	3.2	4.6	5.9	4.3	4.3
1977	4.1	7.1	4.5	4.3	4.8	3.9	5.1	4.8	4.6	5.7	3.6	5.8	4.9
1978	6.4	6.4	5.2	7.0	6.4	5.0	3.6	5.0	5.7	7.0	5.8	5.0	5.7
1979	8.3	5.0	6.1	4.8	3.9	3.1	4.0	4.8	4.3	5.3	6.4	4.4	4.7
1980	6.7	4.6	6.2	5.7	4.0	4.1	3.1	3.2	4.6	4.4	5.3	5.8	4.6
1981	5.3	6.2	6.7	5.5	4.9	4.1	5.0	5.0	5.2	4.0	6.3	4.8	5.2
1982	6.0	4.6	4.9	5.8	5.4	3.1	4.1	3.9	4.8	4.9	3.7	5.4	4.8
1983	8.9	4.6	4.1	3.2	2.5	1.9	3.2	4.3	2.6	3.8	6.8	5.4	3.9
1984	8.7	8.0	8.2	4.3	4.2	4.2	4.2	2.7	5.8	5.3	4.4	5.5	5.3
1985	6.2	4.8	5.0	4.2	4.9	4.4	5.7	6.0	5.0	7.3	7.5	7.2	5.9
1986	6.4	4.4	5.2	3.2	3.9	4.8	3.6	4.1	4.0	6.8	4.9	4.7	4.7
1987	6.3	4.2	7.2	3.6	3.8	3.0	4.3	4.4	3.9	3.7	5.4	5.9	4.5
1988	6.6	3.9	6.3	3.0	2.6	7.0	5.1	5.0	3.7	5.0	6.9	3.7	4.9
1989	4.4	4.8	5.4	5.8	4.9	3.3	4.5	5.1	4.7	6.3	6.6	5.4	5.1
1990	3.4	7.5	5.3	5.5	5.1	3.8	3.6	3.9	4.4	4.8	5.0	6.1	5.0
1991	5.3	7.0	3.4	4.7	4.9	2.6	4.7	4.9	4.9	4.7	6.7	5.8	4.9
1992	7.3	5.4	3.9	5.2	2.6	3.3	3.1	3.5	3.7	4.8	5.3	6.8	4.5
1993	4.6	3.6	5.0	6.0	4.3	3.0	4.4	4.3	2.2	3.8	7.9	5.8	4.6
Mean	6.6	6.5	6.2	4.9	4.2	3.7	4.2	4.4	4.2	5.1	5.7	5.4	4.8



Sunshine Hour
02450011 - TELEMACO BORBA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1977	4.8	7.6	6.3	6.4	7.2	5.7	7.7	7.4	6.1	7.8	5.0	6.1	6.5
1978	7.3	6.5	6.3	9.0	8.0	7.2	6.3	6.4	6.7	7.7	7.0	7.2	7.3
1979	8.0	7.3	7.3	6.3	8.2	7.0	5.4	6.7	5.3	6.7	7.1	4.7	6.4
1980	7.0	6.1	7.2	6.3	5.9	6.4	5.7	5.7	4.9	6.2	6.6	5.9	6.2
1981	5.5	6.6	7.0	7.4	7.1	5.6	7.4	7.2	6.5	5.6	6.9	5.1	6.5
1982	7.8	6.2	6.0	7.6	7.3	4.2	6.5	6.7	7.2	5.4	4.0	6.1	6.2
1983	6.0	5.1	5.7	4.0	3.7	3.2	4.7	7.0	3.4	4.6	6.8	6.5	5.1
1984	7.5	9.4	5.9	5.8	6.7	7.1	7.0	5.8	6.8	7.1	5.9	5.1	6.8
1985	6.2	5.3	5.4	5.2	7.0	5.9	6.6	6.7	6.0	6.1	6.7	8.1	6.8
1986	6.9	4.6	6.4	7.2	4.9	7.9	5.7	5.2	5.9	7.6	5.8	4.5	6.1
1987	6.0	7.7	7.9	5.0	4.4	5.6	6.8	6.2	4.8	4.9	6.0	5.8	5.9
1988	6.3	3.9	6.8	4.7	3.2	3.5	6.1	7.8	6.2	6.9	6.6	6.5	6.1
1989	4.0	4.8	7.1	6.9	7.2	4.8	7.2	6.6	6.0	7.9	7.9	6.4	6.4
1990	3.9	6.2	5.9	6.1	6.6	5.3	4.7	6.1	5.5	5.9	4.7	6.6	5.9
1991	7.2	6.0	5.4	5.9	7.0	5.8	7.4	6.1	5.5	6.2	7.9	6.5	6.6
1992	6.6	7.0	4.7	6.2	3.9	5.8	4.8	5.8	5.4	6.1	6.3	7.8	6.0
1993	5.6	4.2	6.2	7.5	6.3	5.2	6.1	6.6	3.8	6.0	6.7	7.1	6.1
Mean	6.5	6.5	6.3	6.3	6.0	5.7	6.4	6.4	6.4	6.6	6.5	6.7	6.2

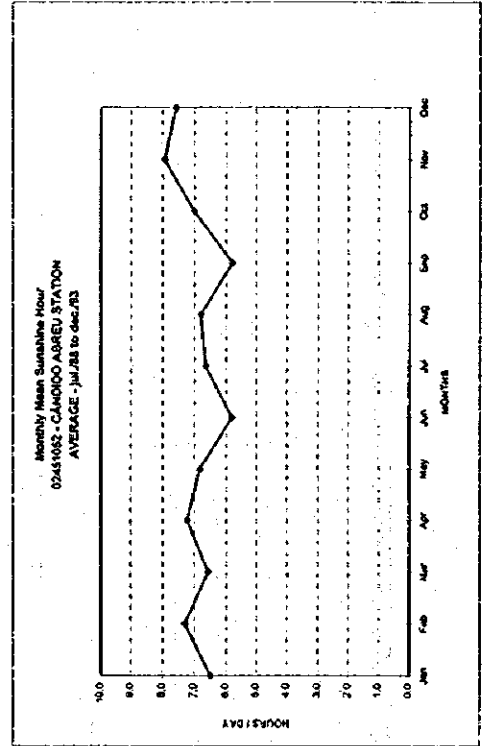
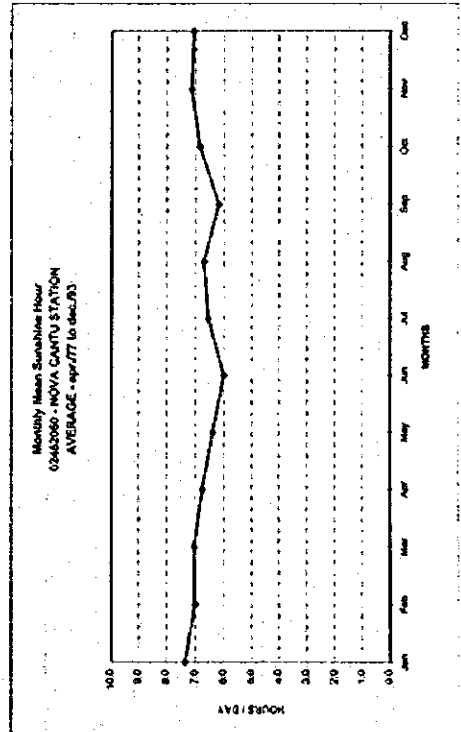


Sunshine Hour
02451052 - CAMICO ABREU STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1988	4.2	5.7	7.7	7.7	8.2	8.2	7.8	8.2	7.8	7.4	8.0	7.1	7.8
1989	4.5	9.6	6.5	6.8	7.1	6.3	5.1	6.3	6.2	6.4	5.7	6.0	6.5
1990	8.3	8.3	6.5	7.1	7.4	5.8	8.3	8.5	5.6	6.4	8.3	7.4	7.2
1991	9.1	6.9	5.3	6.7	4.8	5.3	6.1	6.6	6.8	6.6	7.5	9.4	6.4
1992	8.5	5.1	7.0	7.9	7.0	5.8	5.9	6.0	4.1	6.8	9.0	7.7	6.8
Mean	6.5	7.3	6.8	7.2	6.8	6.8	6.7	6.8	6.8	7.0	8.0	7.6	6.9

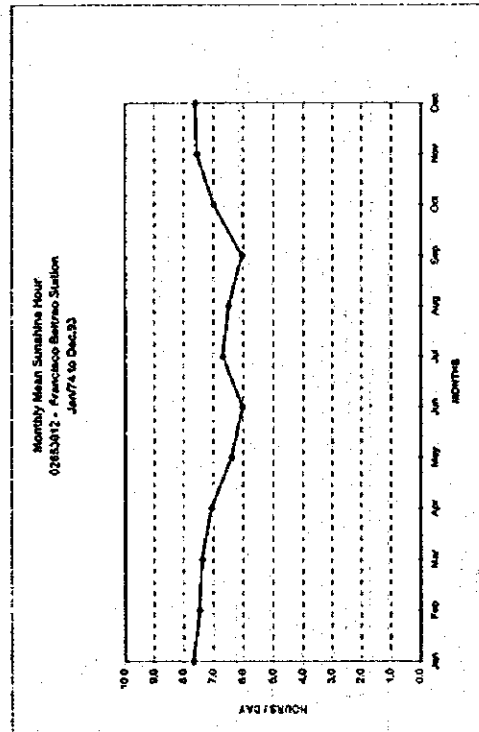
YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1977	4.0	8.3	6.3	8.3	7.3	7.1	7.5	6.3	6.7	7.7	7.7	6.7	7.1
1978	8.0	8.4	7.3	6.8	8.3	6.2	8.3	6.7	6.8	7.7	7.4	6.7	7.6
1979	6.3	8.1	7.7	6.1	6.7	7.0	6.8	7.3	6.4	6.6	7.6	5.2	7.0
1980	7.7	6.9	7.8	7.4	5.8	6.5	6.1	6.6	5.8	7.4	6.9	6.4	6.7
1981	6.7	6.4	8.1	7.1	6.1	6.1	7.0	7.2	6.1	7.2	6.0	6.0	7.0
1982	9.3	5.9	7.3	8.1	7.7	4.4	6.8	6.4	6.4	6.2	4.4	6.7	6.6
1983	6.8	6.2	7.0	4.9	4.7	3.0	3.6	7.4	4.3	5.9	7.7	7.1	5.7
1984	7.7	8.3	6.1	6.7	6.8	8.3	7.9	6.1	7.7	7.3	5.7	6.8	7.0
1985	9.8	6.1	5.7	6.1	7.7	7.3	7.4	6.6	6.6	7.3	9.0	6.0	7.4
1986	7.7	6.3	7.0	6.4	5.4	6.0	7.1	6.5	7.0	7.9	7.1	6.1	6.9
1987	7.6	6.9	8.7	6.0	5.0	8.6	6.7	6.8	8.6	6.1	7.0	7.2	6.7
1988	8.3	6.0	7.8	5.7	3.4	5.7	6.0	7.0	6.2	6.7	6.4	6.7	6.7
1989	4.2	6.0	7.8	7.0	7.9	6.0	6.9	6.0	6.0	8.6	6.0	6.7	6.8
1990	4.7	8.6	5.6	6.2	6.4	5.7	4.9	6.6	5.8	6.6	6.1	7.4	6.2
1991	6.3	6.9	7.0	6.6	7.0	6.1	7.7	6.4	6.3	6.1	6.0	6.6	7.0
1992	8.5	7.1	5.7	6.2	4.3	5.2	5.1	5.6	5.7	6.6	7.2	6.7	6.4
1993	6.2	6.2	6.9	7.4	7.2	5.9	5.7	7.2	4.1	6.3	6.6	7.6	6.6
Mean	7.4	7.0	6.8	6.4	6.4	6.0	6.8	6.7	6.2	6.9	7.2	7.1	6.8

Sunshine Hour
02452050 - NOVA CANTU STATION



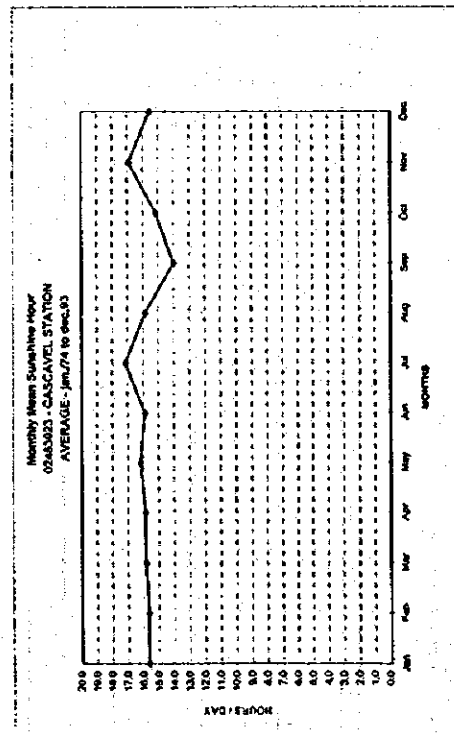
Sunshine Hour
02453003 - PALOTINA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	8.0	6.3	6.6	6.6	6.2	6.4	7.6	8.3	4.9	5.4	7.5	6.5	6.6
1975	6.7	6.3	8.1	7.4	5.6	5.9	6.5	6.7	4.7	7.8	7.6	7.6	6.9
1976	5.2	6.9	7.1	6.6	7.5	7.1	8.0	6.0	7.0	7.8	5.8	7.3	7.2
1977	9.1	6.9	7.7	9.6	8.1	5.7	5.1	5.5	6.5	7.5	9.3	7.5	7.5
1978	9.4	6.0	6.6	6.3	5.4	6.4	6.3	7.2	6.3	6.8	6.3	5.2	6.9
1979	6.7	7.3	6.2	7.3	6.3	6.4	6.4	6.4	6.3	6.8	6.6	7.8	6.9
1980	7.0	6.4	6.5	7.4	6.2	6.4	6.4	6.9	6.6	5.7	7.3	6.1	7.1
1981	10.3	6.7	6.7	6.7	6.4	7.5	3.7	6.9	6.2	5.6	6.4	4.2	6.7
1982	6.5	6.1	7.4	6.2	4.9	3.0	3.0	7.1	4.3	6.2	7.6	6.2	5.7
1983	7.2	6.6	6.7	6.6	7.1	5.9	8.1	6.0	6.2	7.7	6.4	7.6	7.2
1984	7.8	7.0	6.7	6.2	6.2	7.4	7.4	6.0	6.5	7.7	9.2	6.9	7.6
1985	7.8	6.6	6.4	6.2	7.6	6.1	7.5	6.5	7.0	6.2	7.1	7.1	7.2
1986	7.8	6.6	6.4	6.4	6.4	6.6	6.2	6.6	6.4	6.4	7.9	6.2	6.9
1987	7.9	6.4	6.0	6.1	4.3	6.4	6.3	6.3	6.2	7.1	9.5	7.3	7.2
1988	4.2	6.9	7.7	7.1	6.1	6.1	5.6	7.5	6.6	6.1	6.8	4.7	7.1
1989	5.8	6.5	6.7	6.7	6.5	6.6	6.1	6.2	6.3	7.0	7.6	7.9	6.7
1990	9.0	6.6	7.5	7.8	6.9	5.6	7.6	6.7	6.7	5.7	6.5	6.9	7.3
1991	6.9	7.9	5.5	6.3	4.3	3.5	5.1	3.7	5.9	6.8	7.7	9.2	6.6
1992	7.6	7.2	7.5	7.6	7.1	6.3	5.6	6.5	4.7	6.3	6.4	6.1	6.9
1993	7.7	7.5	7.4	7.1	6.4	6.0	6.7	6.5	6.0	7.0	7.6	7.4	6.9
Mean													



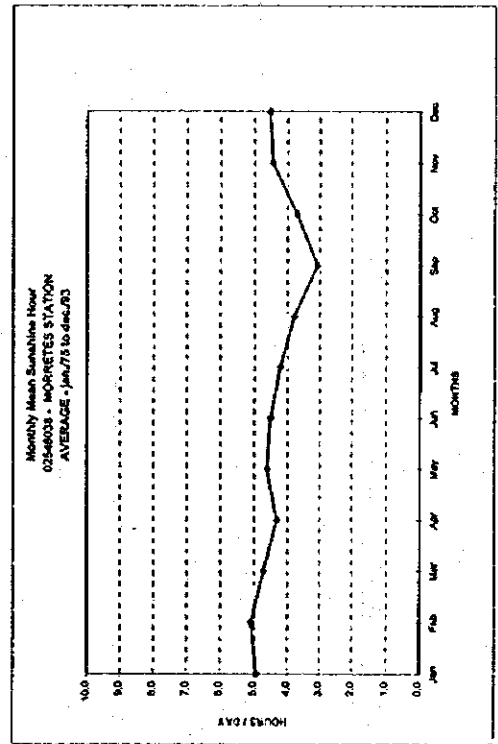
Sunshine Hour
02453003 - CASCADEL STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	6.2	7.3	6.3	6.4	6.7	7.4	6.7	6.4	4.5	5.7	7.4	6.1	6.3
1975	7.2	7.3	7.3	7.4	7.7	7.4	6.7	7.4	5.5	6.7	6.4	7.1	7.3
1976	6.2	6.3	6.3	6.4	6.7	6.4	6.7	6.4	6.5	7.7	6.4	6.1	6.3
1977	8.2	6.2	6.3	6.4	6.7	6.4	6.7	6.4	6.5	7.7	6.4	6.1	6.3
1978	10.2	10.2	10.3	10.4	10.7	10.4	10.7	10.4	8.5	9.7	11.4	10.3	10.3
1979	11.2	11.2	11.3	11.4	11.7	11.4	12.7	11.4	9.5	10.7	12.4	11.3	11.3
1980	12.2	12.2	12.3	12.4	12.7	12.4	13.7	12.4	10.4	11.7	13.4	12.3	12.3
1981	13.2	13.2	13.3	13.4	13.7	13.4	14.7	13.4	11.3	12.7	14.4	13.3	13.3
1982	14.2	14.2	14.3	14.4	14.7	14.4	15.7	14.4	12.3	13.7	15.4	14.3	14.3
1983	15.2	15.2	15.3	15.4	15.7	15.4	16.7	15.4	13.3	14.7	16.4	15.3	15.3
1984	16.2	16.2	16.3	16.4	16.7	16.4	17.7	16.4	14.3	15.7	17.4	16.3	16.3
1985	17.2	17.2	17.3	17.4	17.7	17.4	18.7	17.4	15.3	16.7	18.4	17.3	17.3
1986	18.2	18.2	18.3	18.4	18.7	18.4	19.7	18.4	16.3	17.7	19.4	18.3	18.3
1987	19.2	19.2	19.3	19.4	19.7	19.4	20.7	19.4	17.3	18.7	20.4	19.3	19.3
1988	20.2	20.2	20.3	20.4	20.7	20.4	21.7	20.4	18.3	19.7	21.4	20.3	20.3
1989	21.2	21.2	21.3	21.4	21.7	21.4	22.7	21.4	19.3	20.7	22.4	21.3	21.3
1990	22.2	22.2	22.3	22.4	22.7	22.4	23.7	22.4	20.3	21.7	23.4	22.3	22.3
1991	23.2	23.2	23.3	23.4	23.7	23.4	24.7	23.4	21.3	22.7	24.4	23.3	23.3
1992	24.2	24.2	24.3	24.4	24.7	24.4	25.7	24.4	22.3	23.7	25.4	24.3	24.3
1993	25.2	25.2	25.3	25.4	25.7	25.4	26.7	25.4	23.3	24.7	26.4	25.3	25.3
Mean	15.7	15.7	15.6	15.6	15.7	15.6	16.7	15.6	14.0	15.2	16.9	15.6	15.6



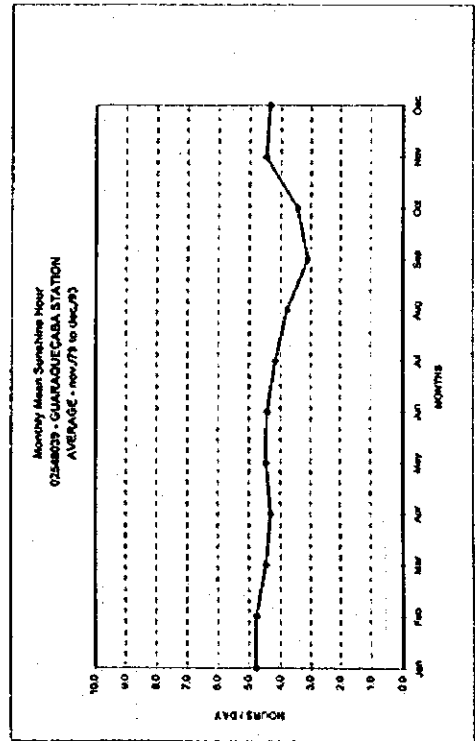
Sunshine Hour
02546038 - MORRETES STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1976	3.9	4.3	4.0	2.6	3.9	3.8	4.6	2.4	1.6	3.3	3.9	2.6	3.4
1976	3.1	4.6	4.0	1.8	2.1	3.5	2.5	1.8	2.3	3.3	5.2	5.1	3.3
1977	4.0	7.4	4.0	3.0	3.9	5.2	4.8	3.2	3.0	4.0	2.2	5.8	4.0
1978	6.5	5.6	4.9	6.1	6.9	4.9	3.8	4.2	3.9	4.8	3.7	4.1	4.9
1979	4.2	8.1	4.9	4.9	4.8	4.1	5.1	3.6	3.7	3.9	4.8	4.0	4.5
1980	5.8	4.0	6.8	5.4	5.2	5.6	3.4	2.8	4.3	2.8	3.3	3.3	4.4
1981	3.0	5.7	4.8	4.7	5.6	4.2	6.4	4.5	4.7	2.6	3.4	4.2	4.4
1982	4.9	4.9	3.4	4.6	5.3	3.5	4.8	3.7	3.4	4.3	2.8	4.8	4.2
1983	4.8	3.3	3.1	2.4	1.7	3.0	2.8	3.7	1.6	2.6	5.8	4.1	3.2
1984	6.4	7.6	4.2	4.2	4.7	5.4	4.7	2.8	4.7	3.9	3.1	2.8	4.8
1985	4.0	4.0	4.4	3.9	7.0	6.2	4.5	4.3	7.9	5.1	5.8	6.5	4.8
1986	8.6	4.3	4.9	4.9	4.3	6.1	4.5	4.9	3.1	5.3	4.0	4.0	4.9
1987	6.6	4.4	7.2	4.0	3.8	5.1	3.6	4.5	2.8	3.0	4.7	4.7	4.4
1988	7.0	3.2	6.5	3.2	3.8	5.9	4.2	4.1	1.4	2.4	5.7	4.9	4.4
1989	4.1	4.6	5.0	5.4	5.5	4.5	5.4	4.7	3.1	4.6	5.9	3.7	4.7
1990	3.6	7.1	4.8	5.1	6.0	5.0	3.0	4.4	3.7	2.6	2.9	5.7	4.1
1991	4.9	8.2	3.8	5.2	6.4	4.2	6.3	4.3	4.0	4.1	5.8	6.1	5.1
1992	6.7	4.6	4.4	5.6	5.2	3.3	2.6	2.7	2.5	4.3	4.8	3.8	4.2
1993	6.0	4.6	5.0	5.6	4.4	4.1	4.7	5.2	2.1	3.0	7.3	4.8	4.6
Mean	4.8	5.1	4.7	4.3	4.6	4.5	4.2	3.8	3.1	3.7	4.5	4.5	4.5



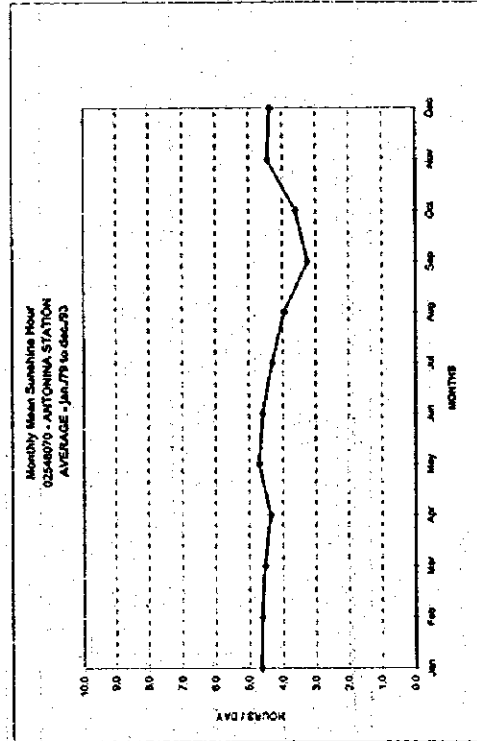
Sunshine Hour
02546039 - GUARAQUECABA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1978	6.5	5.5	4.5	4.6	4.2	3.2	4.6	3.4	3.6	3.6	4.4	3.3	4.1
1980	3.3	5.8	4.3	4.7	5.4	4.8	5.6	4.5	4.8	2.3	3.4	3.9	4.4
1981	4.2	4.3	3.9	4.2	4.7	4.0	4.8	3.8	3.3	3.9	2.5	4.4	3.9
1982	4.1	3.7	2.6	2.2	1.7	2.6	2.7	3.8	1.6	2.5	5.8	4.8	3.2
1984	6.7	7.6	4.2	4.4	5.2	5.1	4.6	2.8	4.8	3.3	2.4	2.0	4.4
1985	3.4	3.5	4.1	3.6	6.6	5.9	4.7	4.0	2.6	4.7	5.6	5.8	4.8
1986	6.8	4.2	4.1	4.8	4.0	5.7	4.1	4.2	3.2	5.1	5.6	4.0	4.5
1987	5.0	4.4	6.0	4.3	3.4	4.7	3.6	4.4	2.8	2.9	4.7	4.7	4.3
1988	6.3	2.6	6.3	2.6	3.3	4.3	3.6	3.9	1.6	2.4	5.0	4.7	3.9
1989	3.8	4.4	4.1	4.9	4.8	4.1	5.1	4.5	3.0	4.4	5.9	3.3	4.4
1990	3.4	7.1	4.8	4.8	5.5	5.1	2.8	3.9	3.7	3.0	3.8	4.6	4.4
1991	4.3	6.6	3.2	4.7	0.0	3.7	0.0	3.9	3.0	3.6	6.4	5.5	4.6
1992	5.4	5.0	4.4	4.8	3.0	3.8	2.8	2.3	2.3	3.9	4.4	5.3	4.0
1993	5.2	3.8	4.7	5.4	3.9	4.1	4.4	5.0	1.8	3.1	7.1	4.4	4.4
Mean	4.8	4.9	4.5	4.3	4.5	4.4	4.2	3.8	3.1	3.5	4.5	4.4	4.2



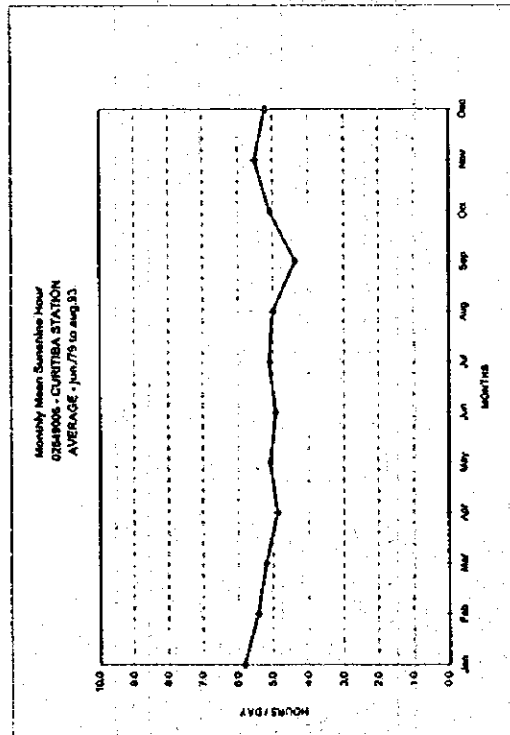
Sunshine Hour
02540070 - ANTONINA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1979	4.0	3.6	5.0	9.0	4.5	4.4	4.6	3.6	3.6	3.9	3.9	4.3	4.2
1980	5.7	5.7	6.0	5.1	5.1	5.7	5.4	2.8	4.1	2.9	3.2	4.1	4.3
1981	3.2	5.7	4.3	4.6	5.3	4.8	5.6	4.8	4.8	2.7	3.9	4.1	4.4
1982	4.2	4.4	2.3	4.3	5.0	3.7	4.9	3.8	3.5	4.0	2.6	4.8	3.9
1983	4.4	3.8	3.2	2.3	1.3	2.8	2.5	3.8	1.6	2.6	6.0	4.7	3.2
1984	0.4	7.4	4.3	4.3	5.5	5.4	4.8	2.8	5.2	4.1	2.7	3.0	4.8
1985	3.8	3.9	4.3	4.0	6.9	6.4	5.1	4.4	3.1	5.3	5.9	4.8	4.8
1986	5.8	4.0	4.4	4.7	4.5	6.5	4.3	5.1	3.8	5.1	3.7	3.7	4.6
1987	4.8	4.8	4.8	4.7	4.7	3.4	5.1	4.1	4.5	2.8	2.6	4.5	4.3
1988	6.3	2.7	5.8	2.8	3.5	4.3	3.4	4.2	1.9	2.3	5.0	4.3	3.9
1989	3.9	4.3	4.4	5.0	4.9	3.9	5.2	4.1	2.8	4.4	5.4	3.4	4.3
1990	3.4	7.0	4.8	5.2	6.5	4.6	2.7	4.0	3.6	3.1	3.8	4.7	4.4
1991	4.3	5.5	3.3	4.9	5.9	3.8	6.1	3.0	4.1	4.0	5.3	5.3	4.7
1992	6.0	4.1	4.4	4.4	4.4	4.1	4.0	5.2	2.4	2.2	4.1	4.3	4.0
1993	4.6	3.4	4.8	5.1	4.4	4.1	4.0	5.2	1.9	3.2	6.4	4.3	4.4
Mean	4.7	4.8	4.5	4.4	4.7	4.8	4.3	4.0	3.2	3.6	4.5	4.4	4.3



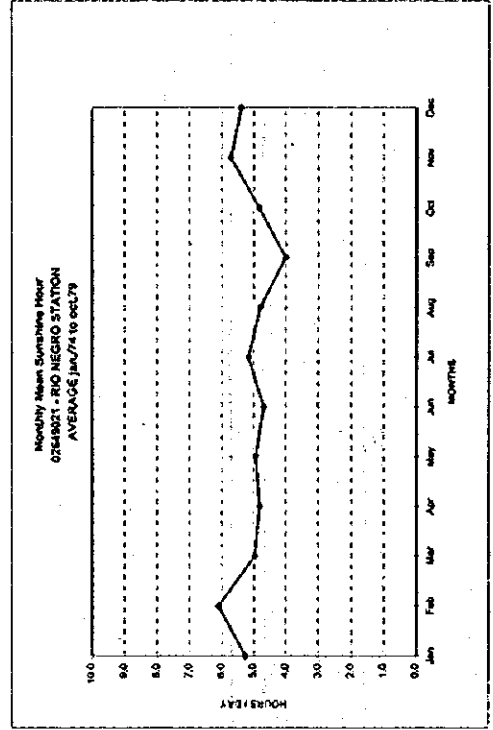
Sunshine Hour
02540006 - CURITIBA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1978	4.1	7.0	5.1	5.0	5.2	4.7	6.7	5.1	4.9	5.5	4.4	4.4	5.1
1980	5.0	6.8	8.9	7.2	7.4	5.6	6.8	6.0	5.5	6.3	3.7	5.9	6.1
1981	6.6	6.4	8.2	4.7	4.8	5.1	6.5	4.9	4.6	5.0	5.6	4.5	5.1
1982	6.8	4.5	6.2	3.5	4.3	5.8	4.6	3.8	4.2	4.3	5.1	4.9	5.0
1984	4.8	6.0	5.1	5.3	5.4	4.9	5.6	5.1	5.3	3.6	5.8	4.3	5.0
1985	6.3	5.4	3.7	5.9	5.1	5.9	5.6	4.9	5.0	5.0	4.1	4.5	5.0
1986	5.9	3.5	3.8	2.9	2.4	2.9	3.2	4.9	3.2	4.6	7.3	3.2	5.0
1987	7.4	8.2	4.4	4.7	5.8	6.3	4.5	3.8	5.7	5.6	3.8	4.7	5.2
1988	6.4	4.8	4.8	4.7	6.6	6.1	5.7	3.5	4.3	6.6	6.7	6.8	5.1
1989	6.5	4.4	5.2	4.8	4.5	6.4	4.8	4.8	3.6	6.7	4.7	4.1	5.0
1990	5.9	6.4	7.1	5.2	4.8	5.2	5.2	5.8	4.3	4.3	5.0	3.2	5.0
1991	6.4	3.7	6.2	3.0	3.1	4.6	3.8	5.6	2.8	4.6	6.4	6.3	4.9
1992	4.1	4.7	4.6	5.7	5.3	3.8	5.9	5.6					5.1
1993	5.8	5.4	5.2	4.9	5.1	4.9	5.1	5.0	4.4	5.1	5.5	5.2	5.1
Mean	5.8	5.4	5.2	4.9	5.1	4.9	5.1	5.0	4.4	5.1	5.5	5.2	5.1



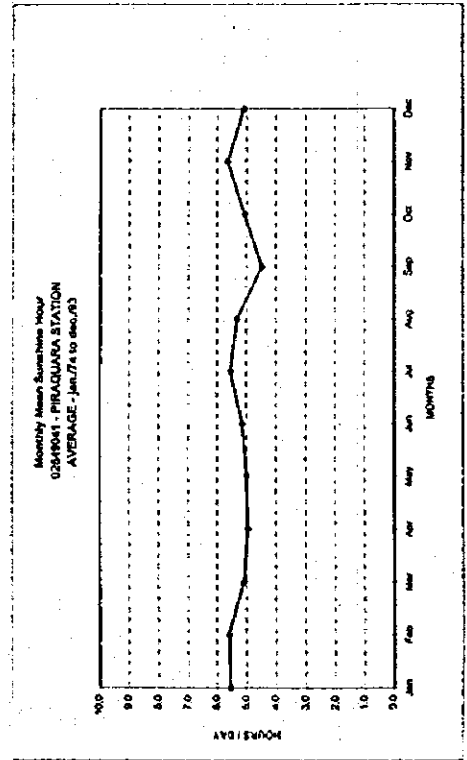
Sunshine Hour
02849021 - RIO NEGRO STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	5.0	5.3	4.8	4.7	5.2	4.8	5.4	5.7	4.3	5.8	7.4	4.6	5.2
1975	4.8	5.5	4.7	5.3	4.1	3.9	5.6	4.0	3.3	3.7	5.0	4.7	4.6
1976	4.5	6.4	4.9	3.7	3.9	5.5	4.9	5.4	3.2	4.9	7.1	6.1	5.0
1977	4.2	7.3	4.5	4.4	5.1	4.5	6.2	4.5	4.5	5.0	4.9	5.7	5.0
1978	6.1	6.2	6.8	6.7	6.8	5.3	4.4	4.4	4.8	5.6	5.2	5.9	5.8
1979	6.0	6.1	5.0	4.2	4.7	4.3	4.9	4.8	4.0	4.0	4.0	4.0	5.0
Mean	5.2	6.1	5.0	4.8	4.8	4.7	5.2	4.8	4.0	4.8	5.7	5.4	5.1



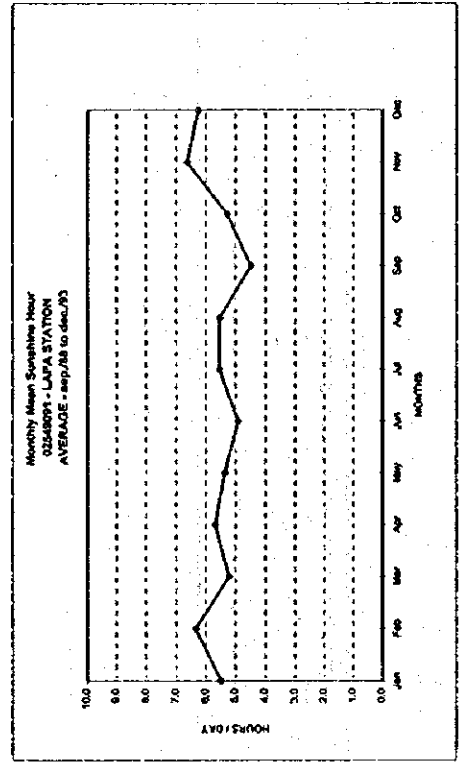
Sunshine Hour
02849041 - PIRAGUARA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	3.1	5.2	5.7	6.6	7.0	5.3	6.6	6.8	4.8	5.6	7.0	3.1	5.6
1975	5.1	5.2	4.7	4.5	6.2	4.7	4.5	4.7	3.8	4.3	4.2	3.5	4.8
1976	2.9	6.2	4.7	5.0	4.0	6.1	5.0	6.0	3.8	4.5	6.9	6.0	5.0
1977	4.0	7.2	5.0	4.8	2.0	4.9	7.2	5.9	5.3	4.3	3.3	4.9	4.6
1978	5.7	6.4	5.4	7.0	7.8	6.1	4.7	5.3	6.8	6.5	5.7	5.0	5.9
1979	6.5	6.5	5.8	4.7	4.9	5.2	5.8	5.4	4.7	4.9	3.0	4.4	5.4
1980	6.3	4.0	6.4	5.9	5.0	5.7	4.6	4.2	4.6	4.7	4.4	5.1	5.1
1981	5.5	6.2	5.4	5.4	5.8	5.4	5.8	5.7	6.1	3.9	5.6	4.2	5.4
1982	6.0	6.3	3.6	5.6	6.0	4.0	5.9	5.1	5.1	4.9	4.1	5.4	5.1
1983	5.6	3.8	3.8	2.8	2.5	3.4	3.7	5.5	3.1	3.9	7.1	5.3	4.2
1984	7.4	8.2	4.5	4.7	6.1	6.8	5.6	3.7	5.9	5.7	3.6	4.8	5.6
1985	6.1	4.4	4.7	4.5	6.6	6.5	6.0	5.9	4.6	6.6	7.3	6.7	5.8
1986	6.5	4.8	5.0	5.0	4.4	6.0	5.1	5.2	4.4	6.9	5.1	4.3	5.3
1987	6.1	5.2	7.3	4.0	4.0	5.9	6.3	5.6	4.1	4.4	5.2	5.4	5.3
1988	6.7	4.0	6.6	3.6	3.3	4.3	6.0	5.7	3.6	4.8	6.4	5.4	5.0
1989	4.4	5.0	5.1	5.9	5.8	4.0	5.8	5.5	4.4	6.2	6.5	4.6	5.3
1990	3.6	6.3	5.0	5.2	6.0	5.2	3.8	4.9	4.3	4.3	4.5	5.7	5.1
1991	5.8	6.9	3.8	5.5	6.0	4.4	6.7	5.0	4.6	5.1	6.5	5.7	5.5
1992	7.3	5.7	4.3	5.6	3.5	4.4	3.8	4.3	3.8	4.8	6.2	6.3	4.9
1993	6.7	3.0	5.0	5.9	4.7	4.4	6.0	6.3	3.1	4.9	6.1	6.1	5.3
Mean	5.6	5.5	5.1	4.9	5.0	5.1	5.6	5.3	4.5	5.1	5.6	5.1	5.2



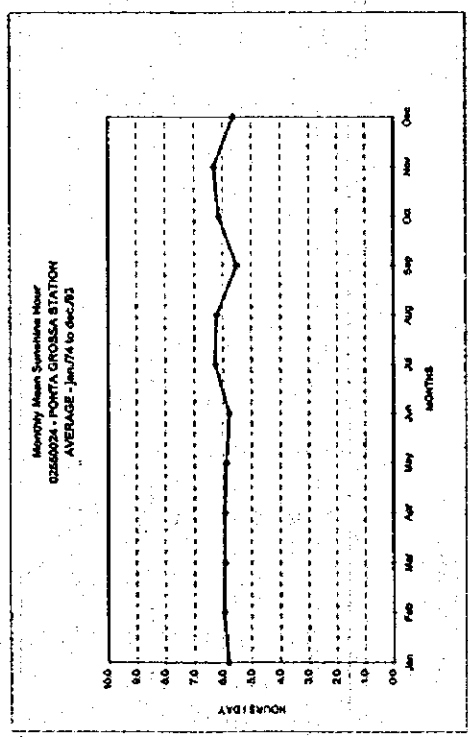
Sunshine Hour
02548091 - LAFAS STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1986	3.9	4.9	6.2	6.0	5.7	4.3	6.6	6.0	4.2	6.4	5.4	7.2	5.2
1989	3.9	7.7	6.8	5.4	6.4	5.3	4.1	5.4	5.0	6.0	6.0	6.0	5.7
1990	6.4	7.3	4.5	5.3	6.0	5.2	7.1	5.4	4.9	5.2	7.0	6.7	5.8
1991	7.8	6.6	4.9	6.0	3.4	5.1	3.9	4.5	4.1	4.7	5.4	6.6	5.2
1992	5.6	4.3	5.3	5.8	5.2	4.7	3.8	6.4	3.5	4.8	6.2	7.0	5.6
Mean	5.6	6.4	5.2	5.7	5.4	4.9	5.6	5.5	4.5	5.3	6.0	6.3	5.6



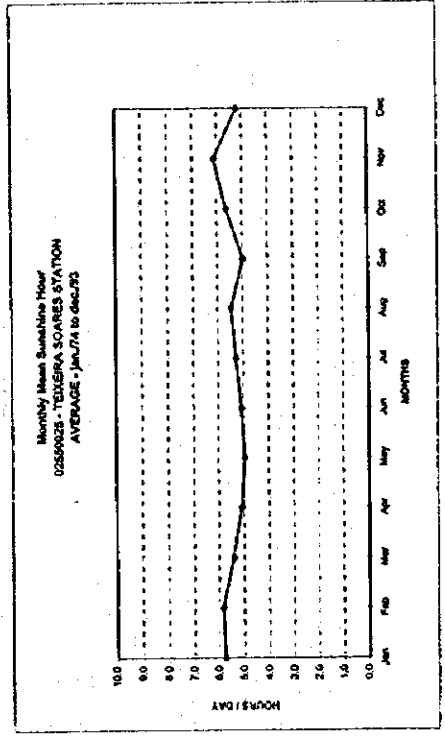
Sunshine Hour
02560024 - PORTA GROSSA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	4.5	6.8	5.2	6.8	7.4	6.7	7.1	6.6	6.2	6.6	6.2	5.8	6.3
1975	5.7	5.6	5.9	6.4	5.8	5.4	7.4	5.8	4.8	5.0	5.0	4.3	5.6
1976	4.1	5.8	5.9	6.1	4.1	4.8	4.7	6.7	4.4	6.0	7.1	6.4	5.5
1977	3.6	7.2	5.6	5.4	6.9	5.1	7.6	6.4	6.0	6.6	6.4	6.3	6.0
1978	6.0	9.1	6.5	6.6	6.1	6.6	6.6	6.4	6.9	7.8	5.9	5.9	6.9
1979	6.8	6.3	6.8	5.2	5.0	5.9	6.1	6.5	5.4	6.7	6.4	4.4	5.9
1980	6.5	5.2	7.4	6.5	5.6	5.7	5.7	5.2	5.0	4.8	6.9	5.4	5.6
1981	4.9	6.1	6.3	6.6	6.2	5.9	6.6	6.7	6.7	5.0	6.6	4.3	6.0
1982	6.5	5.4	5.1	6.5	7.2	4.3	6.4	6.0	6.7	6.0	4.3	5.4	5.8
1983	5.7	4.4	4.6	4.6	3.9	3.6	4.2	7.0	4.4	4.8	7.5	5.7	5.0
1984	6.9	7.9	5.0	5.8	6.5	7.3	7.2	4.3	7.3	6.6	4.6	3.3	6.2
1985	7.3	5.1	5.5	5.0	5.1	7.0	6.0	7.2	5.5	7.5	6.1	7.1	6.6
1986	7.2	4.8	6.3	5.2	4.9	7.7	5.4	5.5	5.4	7.7	6.5	5.2	5.9
1987	4.6	4.6	6.5	4.4	4.5	6.4	7.0	6.5	5.2	5.1	6.7	5.5	5.8
1988	6.3	4.0	7.4	4.7	3.3	4.8	7.3	6.1	5.1	5.1	7.6	6.6	5.9
1989	3.6	4.6	6.6	6.6	6.9	6.7	4.8	7.2	6.1	5.7	7.3	7.5	6.1
1990	3.9	8.6	5.7	5.7	6.6	5.6	4.4	5.6	4.4	5.6	5.1	5.4	5.6
1991	6.8	7.9	4.2	5.9	6.7	5.3	7.9	5.7	5.7	6.7	7.1	6.6	6.3
1992	7.6	6.2	4.6	6.6	3.9	5.3	4.6	5.2	4.7	5.8	5.6	6.9	5.5
1993	5.9	4.3	6.0	6.8	6.3	5.3	5.9	6.9	3.6	5.7	6.0	6.7	6.0
Mean	5.8	6.0	5.9	5.9	5.9	5.6	6.3	6.2	5.5	6.1	6.3	5.6	6.0



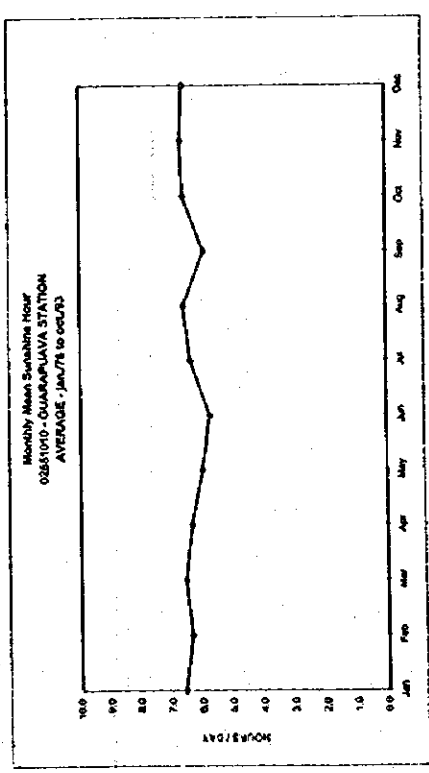
Sunshine Hour
02550023 - TEMERA SOARES STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	4.7	6.2	4.7	6.8	6.3	5.7	6.3	5.9	6.4	6.3	6.2	3.8	5.6
1975	5.6	5.3	4.7	5.3	4.9	4.9	6.6	6.6	5.2	3.6	4.6	5.1	5.1
1976	3.4	5.8	4.9	6.3	4.2	5.3	4.6	6.6	3.9	5.6	6.3	4.8	5.1
1977	3.7	7.8	6.1	4.9	6.1	5.4	6.5	3.3	5.4	6.2	4.2	6.0	6.5
1978	6.6	7.1	6.1	7.7	7.6	5.8	4.8	6.6	6.2	7.5	5.8	5.7	6.4
1979	7.3	6.6	6.4	4.8	4.7	5.4	5.1	5.8	5.2	9.7	6.2	4.0	5.6
1980	6.5	5.7	5.9	5.1	4.8	6.7	4.6	4.5	4.5	4.7	5.7	4.2	5.3
1981	3.9	6.0	6.0	6.3	5.3	5.5	6.1	6.1	6.5	4.7	6.2	4.4	5.6
1982	6.5	5.4	4.8	4.8	3.2	3.2	5.1	5.3	5.9	5.2	3.6	5.3	5.2
1983	6.4	4.4	4.9	3.2	2.5	3.3	3.6	3.2	3.4	4.3	7.4	4.9	4.5
1984	6.7	7.1	4.1	4.4	5.4	4.3	5.4	3.7	6.7	6.1	4.1	4.2	5.4
1985	7.5	4.3	5.0	4.5	4.5	6.1	6.7	5.6	6.5	5.0	6.3	6.1	6.1
1986	6.7	6.2	5.6	5.3	4.3	6.3	4.1	5.1	4.9	7.3	5.6	4.2	6.4
1987	6.4	5.4	7.1	3.4	3.7	5.0	5.0	5.0	4.8	4.4	6.6	6.8	5.3
1988	6.4	3.9	6.1	3.8	2.8	5.8	6.3	4.8	4.8	5.0	4.0	5.2	5.5
1989	4.2	4.7	5.7	5.6	5.3	5.2	5.8	5.1	6.6	6.9	7.0	5.6	5.4
1990	3.9	5.2	5.2	5.2	5.2	5.4	4.4	3.5	4.8	5.0	5.3	4.7	6.2
1991	6.3	7.5	4.5	4.7	6.5	4.8	6.3	5.0	5.2	5.3	7.2	6.6	5.6
1992	6.8	6.2	4.9	5.0	3.2	4.9	3.7	4.0	4.2	5.3	5.7	6.7	5.0
1993	5.7	4.0	5.6	5.8	5.0	4.2	5.2	6.2	3.6	5.5	7.9	6.6	5.4
Mean	5.6	6.0	5.4	5.1	5.0	5.1	5.3	5.5	6.0	6.6	6.1	5.2	5.4



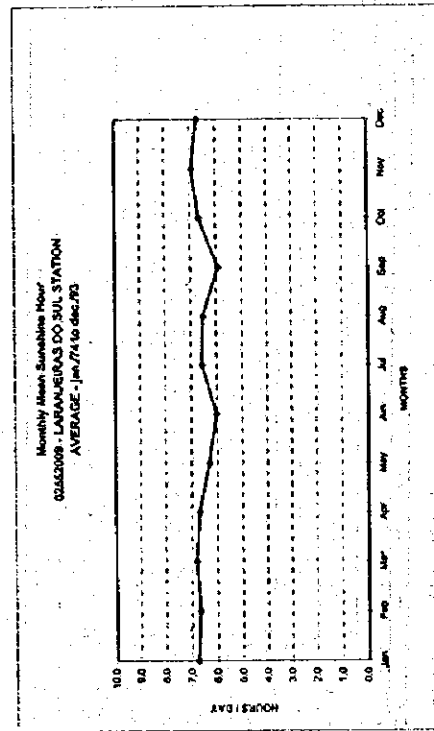
Sunshine Hour
02551010 - GUARAPUAVA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1976	4.3	7.6	7.4	7.4	5.1	6.6	6.9	7.4	5.1	7.0	6.2	6.4	6.4
1977	4.1	6.6	5.7	6.7	7.1	6.5	7.7	6.5	6.9	6.7	7.0	4.5	6.0
1978	7.1	7.9	6.9	9.2	6.5	6.2	5.8	6.9	6.8	7.4	7.2	6.0	7.3
1979	8.6	7.5	7.3	6.5	5.9	6.0	5.1	6.4	6.0	6.2	6.8	4.8	6.4
1980	7.8	6.7	7.0	7.0	5.0	6.2	6.8	5.7	5.5	6.1	5.7	5.8	6.4
1981	5.4	5.4	6.8	6.4	5.9	5.4	7.7	7.1	6.5	6.0	6.4	5.7	6.2
1982	6.5	5.3	5.8	7.2	7.4	3.9	6.6	6.5	6.5	6.0	4.1	6.2	6.2
1983	6.4	4.0	6.0	4.8	3.4	3.4	3.7	7.8	4.5	5.2	6.4	5.9	5.2
1984	6.2	8.3	5.0	6.1	6.2	6.1	6.9	5.3	7.5	7.1	4.9	6.5	6.3
1985	6.9	4.4	5.4	6.6	6.3	7.3	7.0	6.6	6.4	7.6	8.8	6.1	7.0
1986	6.0	4.0	6.0	6.0	6.4	6.0	6.2	6.4	6.3	7.2	6.6	6.6	6.4
1987	7.4	6.3	6.0	5.2	4.5	6.6	6.7	6.9	6.0	6.6	6.5	7.2	6.6
1988	6.9	4.8	7.6	4.7	3.6	4.7	7.8	7.9	6.5	7.3	5.0	6.4	6.4
1989	4.2	5.6	7.1	6.6	7.1	5.3	6.8	6.7	6.1	7.9	7.7	6.6	6.5
1990	4.2	6.0	5.6	5.9	6.1	6.4	4.6	6.1	5.9	5.6	5.9	7.5	6.0
1991	7.0	6.3	6.5	6.5	6.0	5.1	7.4	5.9	5.7	9.2	7.5	6.8	6.7
1992	7.6	6.6	5.0	5.5	4.2	5.4	5.1	5.5	6.2	6.0	6.7	7.7	5.9
1993	6.2	4.8	6.3	6.7	6.4	5.2	5.6	7.1	4.2	6.2	7.6	6.6	6.1
Mean	6.0	6.4	6.5	6.3	6.0	5.7	6.6	6.6	5.9	6.5	6.6	6.0	6.3



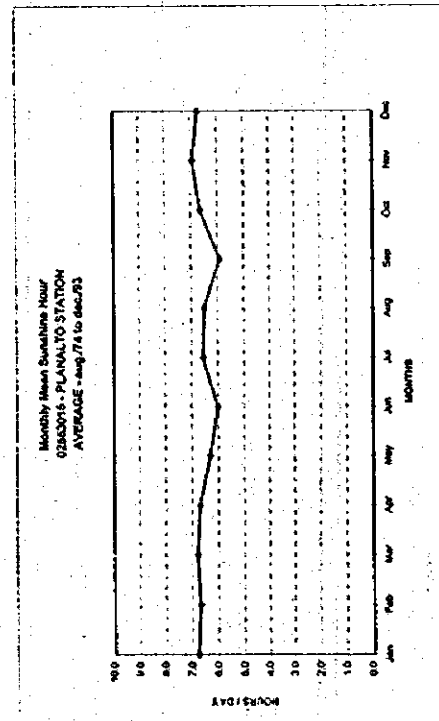
Sunshine Hour
02553009 - LARANJEIRAS DO SUL STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	6.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1975	4.7	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1976	4.7	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1977	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1978	4.7	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1979	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1980	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1981	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1982	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1983	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1984	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1985	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1986	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1987	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1988	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1989	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1990	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1991	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1992	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
1993	4.5	7.0	6.4	6.9	7.1	6.3	6.8	7.2	6.5	7.0	6.3	7.0	6.6
Mean	6.8	6.7	6.8	6.7	6.8	6.0	6.0	6.5	6.5	6.7	6.9	6.7	6.8



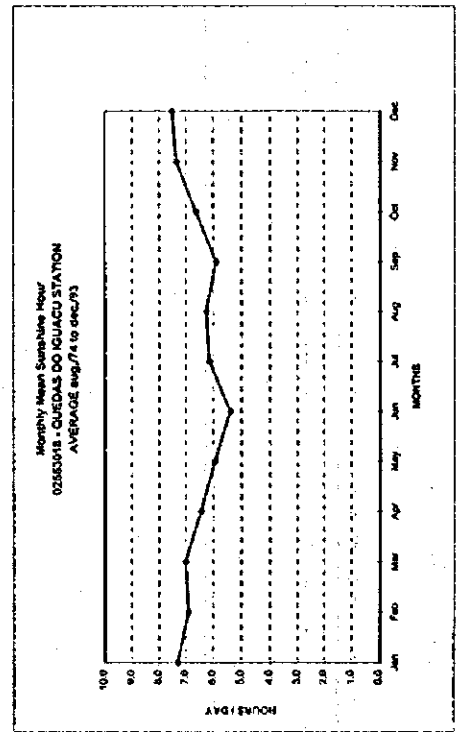
Sunshine Hour
02553015 - PLANALTO STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	5.5	6.6	6.5	7.1	7.7	6.7	7.2	6.5	7.0	6.3	7.0	5.4	6.5
1975	7.0	6.4	6.4	7.1	7.0	6.6	7.6	6.0	4.5	5.6	7.1	5.9	6.3
1976	4.7	7.0	7.1	7.0	4.6	5.6	6.4	6.9	4.9	7.2	6.7	6.0	6.2
1977	4.5	7.0	7.1	7.0	4.6	5.6	6.4	6.9	4.9	7.2	6.7	6.0	6.2
1978	4.7	6.9	7.7	9.5	6.7	6.5	5.7	6.3	6.3	7.5	6.3	7.8	6.8
1979	9.6	6.1	7.8	6.4	5.9	6.4	6.4	6.9	6.1	5.8	7.4	5.2	6.8
1980	8.0	6.6	7.7	7.5	5.9	6.6	6.1	6.0	5.8	6.2	6.7	6.6	6.7
1981	6.1	5.3	7.6	6.9	6.0	6.0	7.9	6.6	6.6	6.6	5.7	6.2	6.6
1982	6.4	4.8	7.1	6.4	7.5	4.2	7.1	6.7	6.6	6.7	4.0	6.1	6.5
1983	6.1	5.3	7.0	4.0	4.3	2.9	3.1	7.1	4.8	5.5	6.8	6.4	5.3
1984	6.8	6.2	6.4	6.1	6.7	5.8	7.3	5.6	7.5	7.4	4.8	6.1	6.4
1985	4.9	4.4	5.6	5.7	6.1	7.8	7.3	5.6	5.6	7.2	6.2	6.0	7.0
1986	6.7	5.3	7.0	6.2	5.4	6.0	7.1	6.4	6.4	7.7	6.4	5.6	6.5
1987	6.8	5.8	6.1	6.5	4.3	6.6	6.0	6.0	5.9	5.6	6.6	6.8	6.3
1988	6.0	5.2	7.3	5.3	2.6	5.7	6.0	6.3	6.8	7.7	9.7	7.0	6.8
1989	4.5	5.6	7.8	7.2	7.5	5.6	7.1	6.5	6.1	6.4	7.9	6.5	6.8
1990	4.6	6.3	5.5	5.8	6.1	6.1	6.1	6.2	5.7	6.3	6.6	7.3	6.0
1991	6.1	6.6	6.9	6.8	6.7	5.9	7.4	5.6	6.0	6.6	6.3	7.5	7.0
1992	6.5	7.0	5.7	5.8	4.3	5.5	5.4	5.8	5.4	6.4	7.3	6.6	6.3
1993	6.6	5.7	5.9	7.1	6.6	6.1	5.7	7.6	4.5	6.6	6.4	7.0	6.6
Mean	6.8	6.7	6.8	6.7	6.3	6.0	6.6	6.5	6.8	6.7	6.9	6.7	6.8



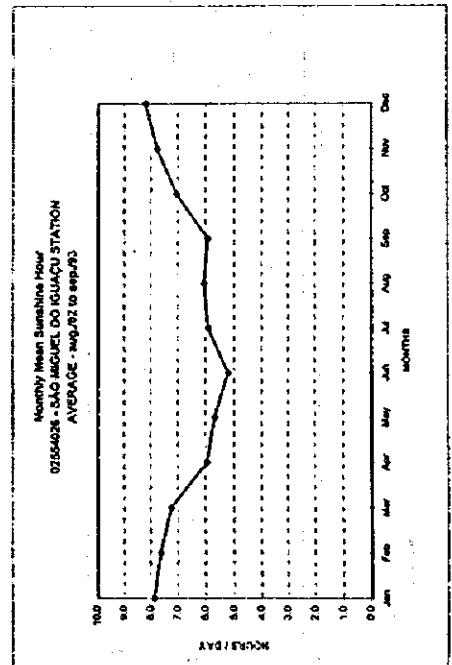
Sunshine Hour
02553018 - QUEDAS DO IGUAÇU STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Mean
1974	4.5	6.0	6.2	6.7	6.5	6.0	6.8	6.2	6.8	6.8	6.4	6.4	7.1
1976	5.0	7.8	7.3	7.5	5.0	4.9	6.2	7.1	3.7	7.8	5.9	7.0	6.7
1977	4.8	7.7	5.8	7.5	7.0	6.5	7.0	5.6	6.5	7.2	6.1	6.2	6.7
1978	6.8	8.4	7.5	8.1	8.3	6.1	5.3	6.3	6.7	6.9	6.9	6.9	7.4
1979	8.3	7.5	7.5	8.0	8.2	6.2	6.2	6.2	6.2	5.7	7.8	5.3	6.6
1980	8.9	7.0	7.8	7.7	5.4	5.7	5.8	6.3	5.1	6.4	7.1	7.0	6.6
1981	6.7	5.8	8.4	6.8	7.7	5.8	7.5	6.4	6.4	6.2	6.8	6.1	6.7
1982	9.3	5.4	7.9	8.4	6.9	3.8	6.6	6.7	6.8	6.2	3.7	6.9	6.6
1983	6.7	5.8	7.5	5.2	4.3	3.0	2.8	6.2	4.9	6.0	7.5	6.3	6.7
1984	6.6	6.2	5.8	5.1	6.6	5.2	6.7	6.6	7.7	8.0	6.1	7.8	6.6
1985	9.4	5.3	6.9	5.6	7.1	7.1	6.9	5.4	5.7	7.2	9.1	6.8	7.0
1986	7.8	6.3	6.7	5.6	4.9	6.8	6.7	6.3	6.2	6.8	7.0	6.9	6.5
1987	7.6	6.2	8.1	4.6	4.0	4.9	5.2	6.4	5.9	6.8	7.8	7.5	6.2
1988	7.4	6.3	6.0	5.8	3.3	5.3	6.8	7.4	6.8	7.1	9.8	7.4	6.8
1989	4.5	6.9	7.2	6.5	7.0	5.0	6.6	6.1	6.6	7.8	6.6	7.6	6.6
1990	5.2	6.4	6.7	6.7	6.0	4.7	5.1	6.4	5.6	6.2	6.7	6.4	6.1
1991	9.1	6.9	7.6	6.7	6.7	5.6	7.3	6.1	6.5	6.2	6.5	7.1	7.2
1992	6.9	6.8	5.3	6.2	4.0	5.0	4.8	5.5	5.7	6.4	7.1	6.9	6.2
1993	6.2	6.8	6.4	7.0	7.0	5.5	5.5	6.6	4.4	6.2	7.7	6.2	6.5
Mean	7.3	6.8	7.0	6.4	5.9	5.4	6.1	6.3	5.9	6.6	7.4	7.5	6.6



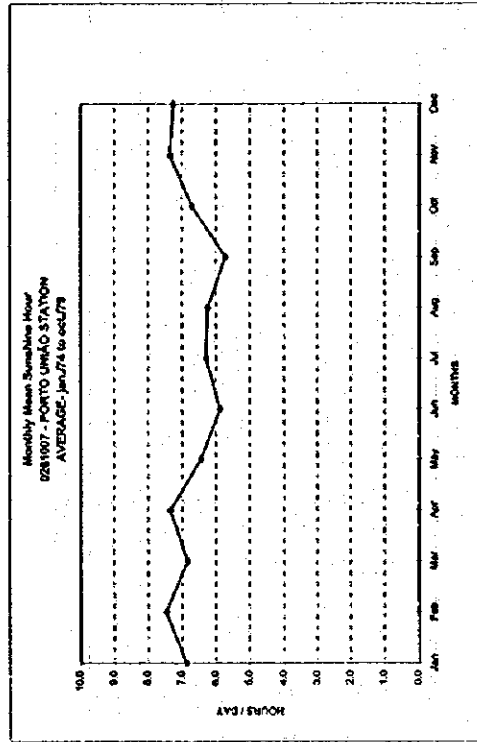
Sunshine Hour
02554028 - SÃO MIGUEL DO IGUAÇU STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Mean
1983	7.5	6.7	7.4	5.0	3.2	3.0	2.7	6.2	5.0	6.7	7.0	4.5	7.6
1984	7.2	6.6	6.0	5.6	6.3	4.4	6.3	5.1	7.3	7.5	6.5	7.6	6.5
1985	6.7	6.9	7.6	6.7	7.6	6.8	5.9	5.0	5.6	7.4	9.3	9.7	7.2
1986	6.4	6.6	7.3	6.1	5.1	6.9	6.6	6.2	6.4	7.4	7.4	7.3	6.3
1987	7.3	6.8	8.7	6.0	4.7	6.1	4.9	6.3	6.7	6.2	7.8	8.1	6.6
1988	6.2	6.8	6.4	5.1	3.7	4.3	7.1	7.0	6.4	7.9	9.6	6.5	6.9
1989	5.1	7.6	7.9	6.5	7.6	5.0	7.5	6.5	6.9	8.4	8.2	7.7	7.1
1990	6.8	6.4	7.0	6.3	6.8	4.6	6.7	6.6	6.7	6.3	7.5	7.4	6.5
1991	9.2	9.1	7.5	7.0	6.6	5.7	7.6	5.8	6.0	7.1	8.3	7.4	7.3
1992	9.3	7.8	6.4	6.0	4.1	5.0	4.7	5.8	5.7	6.5	7.4	9.2	6.4
1993	7.5	6.7	7.0	7.2	7.2	5.7	5.8	6.6	4.4	6.0	7.6	6.7	6.6
Mean	7.9	7.6	7.2	6.0	5.7	5.2	5.9	6.1	5.9	7.1	7.8	8.2	6.7



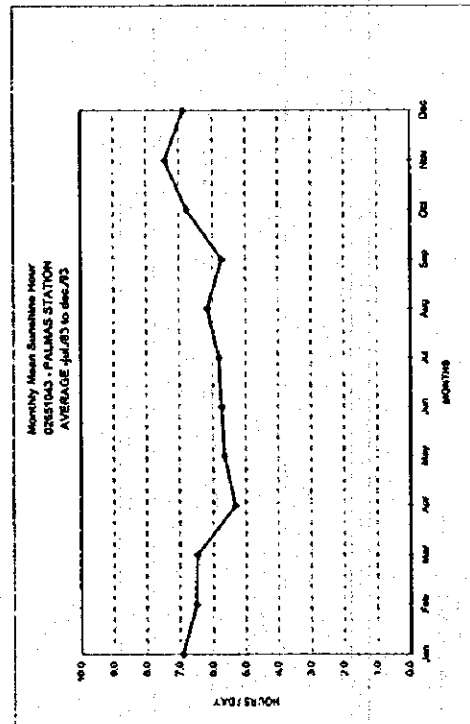
Sunshine Hour
02851007 - PORTO UNIAO STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	6.5	5.4	6.2	6.7	6.5	6.0	6.6	6.2	6.0	6.0	6.4	7.4	6.7
1975	5.0	7.8	7.2	7.5	5.0	4.9	6.2	7.1	3.7	4.4	5.9	7.0	6.2
1976	4.6	7.7	5.9	7.5	7.0	6.9	7.0	5.8	6.5	7.2	7.8	7.5	6.5
1977	8.8	8.4	7.5	9.1	6.3	6.1	5.3	6.5	6.7	6.9	6.9	6.9	7.4
1978	9.5	7.5	7.5	6.6	5.5	6.0	6.2	6.3	6.2	5.7	7.8	5.5	6.6
Mean	6.9	7.5	6.8	7.4	6.5	5.9	6.3	6.7	5.7	6.7	7.4	7.3	6.7



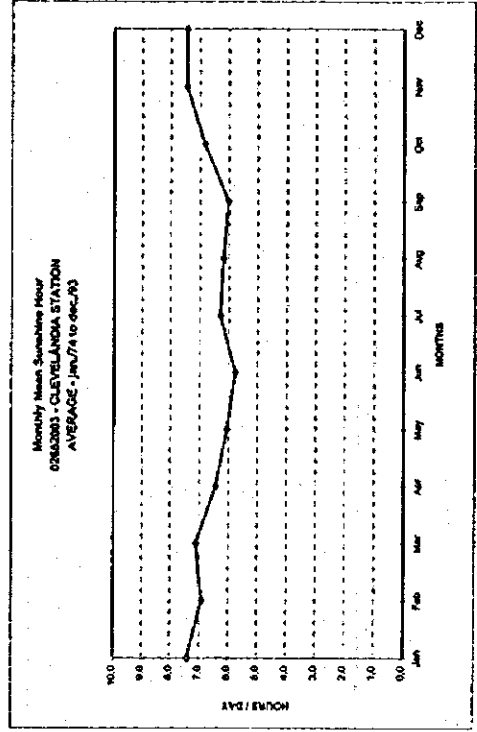
Sunshine Hour
02851043 - PALMAS STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1983	6.3	7.6	5.4	6.6	5.9	5.8	6.7	5.5	7.3	7.9	5.9	7.0	6.3
1984	9.2	5.0	6.1	5.1	7.0	7.3	7.3	5.2	5.7	7.4	6.7	6.2	6.8
1985	7.5	5.6	7.0	5.3	5.4	7.6	6.7	6.3	5.8	7.4	6.9	5.5	6.4
1986	7.0	5.6	6.1	4.9	4.6	6.1	5.4	6.5	5.4	5.6	6.0	6.3	6.2
1987	4.2	6.3	7.7	4.2	4.2	4.8	6.1	7.4	6.0	7.6	9.3	6.4	6.5
1988	4.0	5.7	6.5	6.5	6.9	5.2	7.0	6.2	5.8	7.4	7.8	6.7	6.3
1989	4.6	6.7	5.7	4.8	6.0	5.3	4.9	4.7	5.9	6.0	6.7	6.1	6.0
1991	6.0	6.2	7.1	6.2	6.8	5.7	7.3	5.8	5.9	6.0	7.9	6.1	6.9
1992	8.2	6.2	5.4	5.1	3.5	4.2	4.2	4.9	5.4	6.1	6.8	6.1	5.5
1993	6.2	5.3	5.9	5.6	6.3	5.3	4.9	7.0	4.1	6.5	7.9	6.9	6.0
Mean	6.6	6.5	6.5	5.3	5.7	5.7	5.8	6.2	5.7	6.6	7.4	6.9	6.3



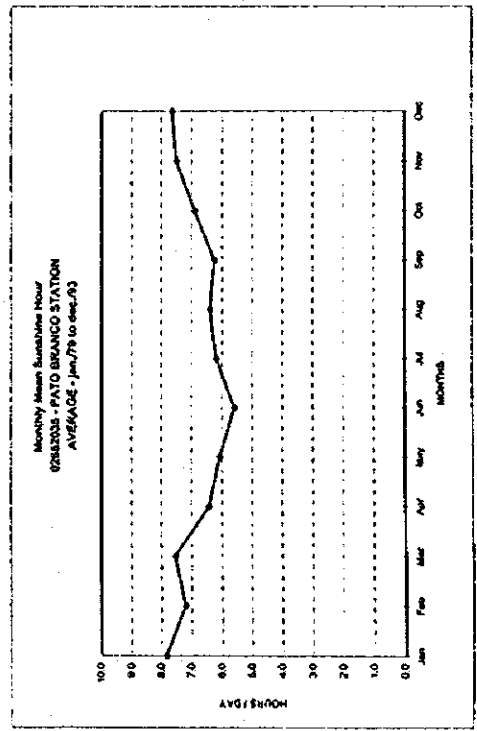
Sunshine hour
02652003 - CLEVELANDIA STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	6.3	6.8	7.3	6.8	5.8	5.0	6.7	6.8	6.4	7.7	6.1	7.2	6.8
1975	6.9	7.0	6.1	6.2	7.2	6.5	7.1	5.8	4.6	6.2	7.6	6.4	6.5
1976	5.1	7.9	6.9	7.3	4.0	4.5	4.8	6.8	5.0	7.5	8.0	6.2	6.3
1977	5.2	6.1	5.7	7.8	7.4	6.7	7.0	6.0	6.9	7.4	6.8	7.8	6.9
1978	6.6	6.7	7.6	9.2	6.9	6.0	5.0	6.0	6.8	7.0	7.4	5.5	7.5
1979	10.1	7.7	7.7	6.5	6.0	6.6	6.1	6.0	6.6	5.7	7.4	5.5	6.8
1980	9.3	7.2	7.5	7.4	5.9	6.6	5.5	6.9	6.3	5.9	7.4	7.0	6.8
1981	6.9	6.5	6.2	6.6	7.6	5.7	7.2	7.0	6.6	7.0	7.4	6.7	6.9
1982	9.7	5.3	7.7	6.3	7.4	4.1	6.8	6.8	7.1	6.7	4.7	7.3	6.8
1983	6.6	6.3	6.0	6.1	3.9	6.1	6.8	6.8	7.1	6.7	4.7	7.3	6.8
1984	6.6	6.3	6.0	6.1	3.9	6.1	6.8	6.8	7.1	6.7	4.7	7.3	6.8
1985	6.6	6.4	7.0	5.9	7.3	7.1	7.2	4.8	5.5	7.5	6.9	6.5	7.1
1986	7.7	6.5	7.1	5.7	5.4	7.8	7.5	6.5	6.3	7.5	6.8	6.9	6.9
1987	9.9	6.7	6.8	5.6	4.7	6.3	5.3	6.3	5.9	5.9	6.4	7.8	6.7
1988	7.2	6.8	6.3	5.5	4.0	4.9	7.6	7.1	6.6	6.0	6.4	7.5	6.9
1989	4.3	6.2	7.2	6.2	7.0	5.5	7.1	6.4	6.1	7.9	6.0	7.0	6.6
1990	4.8	6.1	5.7	4.3	6.3	5.1	5.2	6.9	6.0	5.7	6.2	6.7	6.1
1991	8.7	6.0	7.4	6.3	6.9	3.3	7.3	6.5	6.0	6.3	7.8	6.6	6.9
1992	8.2	6.0	6.4	5.1	3.7	4.2	4.8	6.3	5.7	6.1	7.2	8.4	5.9
1993	6.0	6.2	6.1	6.4	6.8	5.7	5.8	6.7	5.8	6.4	7.6	6.1	6.2
Mean	7.4	6.8	7.1	6.4	6.1	5.6	6.5	6.2	6.0	6.8	7.5	7.4	6.8



Sunshine hour
02652005 - PATO BRANCO STATION

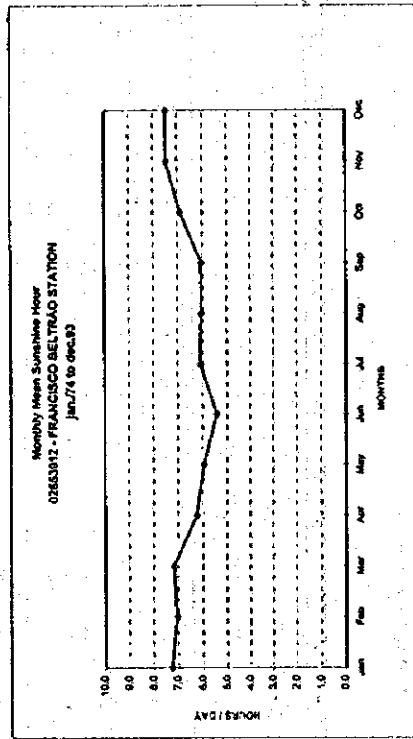
YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1979	9.6	7.7	6.4	6.6	6.0	6.6	6.2	6.4	6.8	5.7	7.9	5.6	6.9
1980	9.2	7.5	7.8	7.2	5.5	6.7	5.2	5.6	6.5	4.8	6.6	6.6	6.8
1981	6.9	6.2	6.3	6.8	7.8	5.4	7.5	6.7	6.1	6.6	7.3	7.0	6.9
1982	9.9	5.3	8.0	8.8	7.8	3.7	6.7	6.6	7.0	6.5	4.5	7.4	6.8
1983	7.5	6.6	8.2	5.3	4.3	3.2	2.8	0.4	5.8	6.5	7.7	6.1	6.1
1984	6.6	6.5	6.3	6.1	6.5	5.3	6.8	5.4	7.4	6.1	6.2	7.5	6.6
1985	6.0	6.0	6.8	6.0	7.5	7.5	7.2	5.5	5.9	6.0	6.2	6.8	7.4
1986	6.6	6.9	7.3	6.1	5.5	7.5	7.6	6.5	6.4	7.4	7.5	7.3	7.1
1987	7.8	6.2	9.3	6.0	4.7	6.4	5.2	6.4	6.4	6.2	6.2	6.0	6.8
1988	7.3	7.4	9.3	5.8	4.0	4.9	6.1	7.0	6.4	6.6	9.7	7.6	7.1
1989	4.6	6.6	7.6	6.9	7.5	5.9	7.2	6.8	6.3	6.6	6.8	7.0	7.0
1990	5.0	6.2	6.2	5.3	6.8	5.1	5.6	7.1	6.3	6.6	7.1	6.7	6.6
1991	6.4	6.6	7.5	7.2	6.8	6.0	7.6	5.9	6.9	6.6	6.1	6.9	7.4
1992	8.8	7.1	5.4	5.7	3.7	4.8	4.9	5.7	6.1	6.6	7.5	6.5	6.3
1993	6.3	7.0	6.6	7.0	7.0	6.8	6.7	7.3	4.1	6.6	7.7	8.6	6.8
Mean	7.8	7.2	7.5	6.4	6.1	6.6	6.2	6.4	6.3	6.9	7.5	7.6	6.8



Sunshine hour
026032012 - FRANCISCO BELTRAO STATION

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	6.1	7.2	6.3	7.1	7.0	6.0	6.4	6.5	6.3	7.8	9.1	8.2	7.0
1975	6.9	6.6	6.3	5.9	5.6	6.2	6.9	5.2	4.4	5.1	7.0	5.8	6.0
1976	4.8	7.8	7.0	7.7	5.0	5.0	6.1	6.7	4.6	7.1	7.0	5.8	6.2
1977	4.3	6.2	5.2	6.7	8.4	6.5	6.5	5.7	6.8	7.8	7.3	8.1	6.8
1978	6.9	6.4	7.7	6.2	6.9	4.2	4.9	5.9	6.6	6.6	7.1	6.5	7.4
1979	9.8	7.2	8.4	6.2	6.0	6.1	6.0	6.1	6.3	5.6	7.6	5.4	6.7
1980	6.3	7.3	7.6	7.2	5.3	6.3	5.5	5.9	6.3	6.1	7.1	7.3	6.8
1981	6.8	5.7	6.5	6.2	7.4	5.3	7.6	6.5	6.1	6.7	7.3	6.8	6.6
1982	6.8	5.5	6.1	6.0	7.2	3.4	6.7	6.3	6.6	6.3	4.4	7.4	6.7
1983	7.0	6.4	8.0	5.2	4.6	3.2	2.7	6.4	5.8	7.0	7.4	8.7	6.0
1984	6.9	6.3	8.0	5.8	6.1	5.1	6.5	4.9	7.4	7.8	5.6	7.3	6.6
1985	9.4	5.3	6.8	5.7	7.1	7.0	6.7	4.8	5.2	7.3	6.8	6.2	6.9
1986	7.8	6.1	7.3	6.5	4.9	7.3	7.3	6.4	6.6	7.6	7.5	7.5	6.9
1987	7.6	6.3	9.1	5.2	4.9	6.9	5.0	6.5	6.6	6.0	6.3	6.3	6.6
1988	7.1	7.2	6.0	5.2	4.1	6.1	7.8	7.2	6.6	6.1	9.8	7.8	7.1
1989	4.4	6.2	7.4	6.4	7.1	5.3	6.8	6.2	6.1	6.1	8.4	7.5	6.7
1990	5.5	6.7	6.8	4.6	6.3	4.6	7.4	6.5	6.0	6.1	6.8	7.9	6.2
1991	8.5	5.5	7.4	6.3	6.1	5.4	7.0	6.5	6.2	6.9	7.2	6.4	6.6
1992	8.0	6.8	5.5	5.2	3.6	4.3	4.5	5.6	5.6	6.9	7.5	8.5	6.6
1993	6.5	7.2	6.1	6.2	6.3	4.8	5.3	6.6	4.2	6.5	7.1	6.3	6.3
Mean	7.2	7.1	7.2	6.3	6.0	5.4	6.1	6.1	6.1	6.8	7.5	7.5	6.6

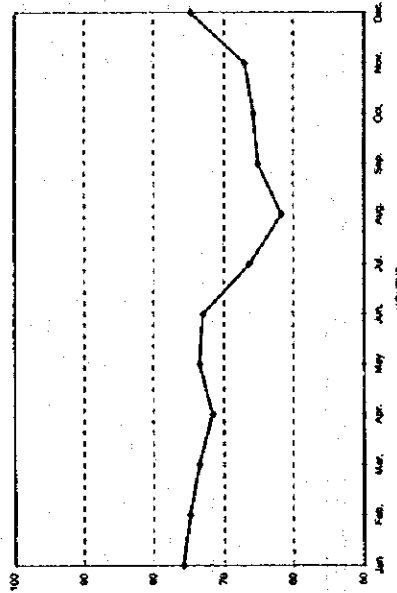
Unit: (hour/day)



RELATIVE HUMIDITY (%)
02251027 - BELA VISTA DO PARAISO STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	82	76	81	73	71	76	81	80	80	70	62	52	73
1975	76	81	74	69	71	71	64	63	63	72	79	76	74
1976	78	79	72	70	79	71	70	68	74	70	67	77	73
1977	81	71	70	72	68	77	82	83	68	66	76	77	71
1978	72	65	70	55	58	63	67	56	68	55	68	70	64
1979	67	68	69	64	73	64	66	60	72	64	60	61	69
1980	76	77	70	75	72	67	66	71	69	64	68	75	71
1981	61	73	66	66	65	71	56	52	46	74	71	60	67
1982	74	75	77	68	66	60	71	71	69	71	78	60	73
1983	60	78	76	78	83	83	83	55	80	73	65	75	74
1984	71	67	71	73	72	63	56	64	57	57	69	76	60
1985	74	76	76	78	73	73	65	54	60	53	58	60	67
1986	73	61	79	71	61	70	69	71	67	60	65	62	72
1987	60	79	68	74	81	78	69	81	69	71	68	72	72
1988	75	78	70	76	85	75	64	49	54	65	59	66	68
1989	85	84	74	74	73	78	66	71	69	60	67	75	73
1990	60	66	71	72	73	76	77	70	60	65	71	69	71
1991	73	70	60	73	70	72	63	58	58	66	61	75	68
1992	65	72	82	78	82	74	75	69	78	71	68	66	73
1993	74	83	71	71	74	77	68	62	73	68	58	70	71
Mean	76	75	74	72	73	73	67	62	65	65	67	75	70

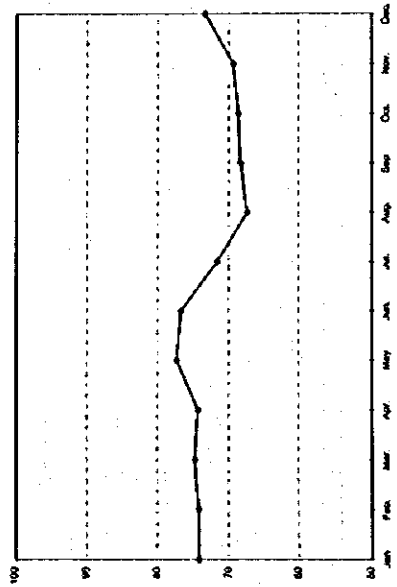
RELATIVE HUMIDITY (%)
02251027 - BELA VISTA DO PARAISO STATION
Jan/74 to Dec/93



RELATIVE HUMIDITY (%)
02349030 - JOAQUIM TAVORA STATION

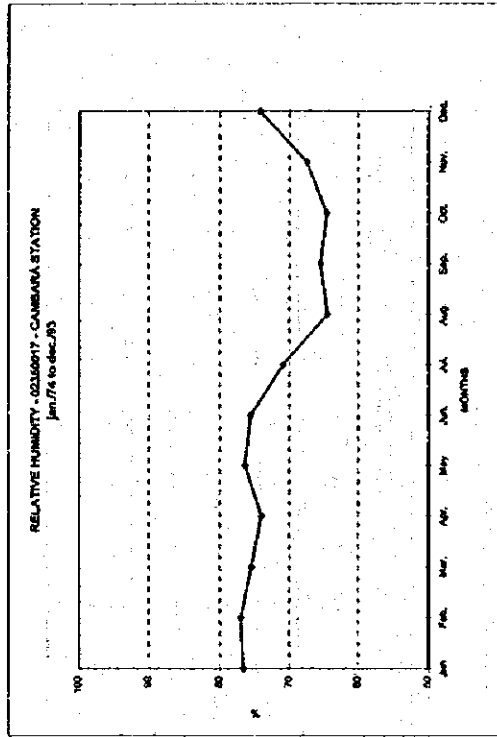
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	81	77	83	77	78	82	70	64	61	60	64	76	74
1975	74	76	73	72	73	73	68	60	63	73	76	77	72
1976	78	76	76	77	78	78	74	73	76	73	68	77	76
1977	77	70	72	74	71	78	66	66	69	67	76	72	72
1978	68	60	73	62	67	70	75	67	70	72	70	60	68
1979	66	68	67	67	76	72	74	74	74	72	72	76	71
1980	73	76	74	76	76	73	76	76	73	68	70	77	74
1981	70	72	71	72	73	77	68	62	65	75	72	76	71
1982	73	77	76	76	71	81	77	75	63	74	79	79	75
1983	78	75	76	76	84	85	70	63	79	73	69	75	76
1984	73	68	70	75	79	71	63	70	82	61	69	75	70
1985	71	71	60	79	77	77	69	61	65	58	61	63	70
1986	73	78	79	77	83	74	73	76	70	68	68	60	75
1987	74	90	70	74	90	81	73	66	71	74	70	71	75
1988	77	77	72	79	84	75	68	58	59	68	67	67	71
1989	81	80	76	75	75	76	71	71	71	64	66	74	74
1990	79	68	72	72	75	76	70	69	71	69	72	67	72
1991	70	71	74	74	75	76	69	65	63	67	65	74	71
1992	66	72	81	78	82	76	75	70	78	75	69	67	74
1993	74	82	78	76	78	79	73	65	77	70	62	73	74
Mean	74	74	75	74	77	77	72	68	68	68	68	75	73

RELATIVE HUMIDITY (%)
02349030 - JOAQUIM TAVORA STATION
Jan/74 to Dec/93



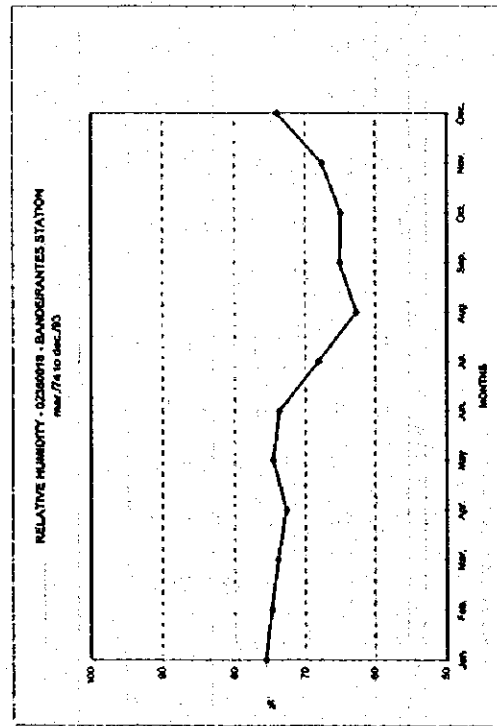
RELATIVE HUMIDITY (%)
02250017 - CAMBARA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Mean
1974	76	61	73	74	66	69	73	71	56	60	56	73	76
1975	60	81	77	74	74	80	76	74	72	76	68	65	77
1976	60	75	73	73	74	74	83	57	62	61	75	73	70
1977	72	63	74	65	68	70	73	62	66	54	69	73	66
1978	71	69	69	69	77	70	73	65	72	66	70	79	71
1979	78	60	74	77	76	76	72	68	67	63	66	77	72
1980	61	72	69	70	69	76	68	56	49	72	70	79	66
1981	77	78	77	72	71	81	78	71	59	70	76	62	74
1982	60	76	75	79	79	83	70	56	77	72	68	74	79
1983	71	69	71	76	76	68	60	66	58	54	63	75	67
1984	73	79	60	79	79	76	76	71	59	52	50	61	66
1985	72	79	60	73	62	72	70	76	66	62	67	62	74
1986	76	62	73	76	76	61	62	72	62	60	69	67	74
1987	79	80	73	60	63	78	69	55	58	66	64	67	71
1988	66	65	60	74	74	79	72	70	66	59	66	73	74
1989	82	72	76	73	73	77	78	69	70	68	73	72	74
1990	74	77	60	76	75	75	76	71	61	66	63	76	71
1991	70	76	64	76	82	75	74	67	76	70	69	68	74
1992	74	65	77	76	76	80	74	70	77	65	60	75	74
1993	77	77	76	74	76	76	71	64	65	65	67	74	72



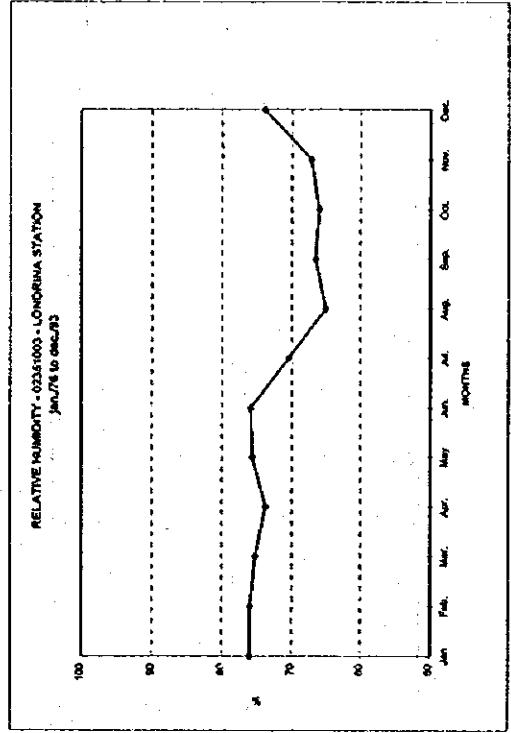
RELATIVE HUMIDITY (%)
02350018 - BANDERANTES STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Mean
1974	61	63	76	70	87	75	71	61	63	72	77	60	71
1975	79	70	69	67	74	61	58	61	64	64	76	74	66
1976	68	61	72	60	65	66	70	61	65	65	69	71	66
1977	66	66	65	75	67	69	68	70	66	69	69	78	66
1978	60	76	75	78	72	64	66	66	66	62	69	78	70
1979	61	68	65	69	66	75	64	54	48	72	60	76	67
1980	74	77	76	66	66	80	73	70	60	70	77	80	75
1981	77	76	75	79	83	83	70	63	83	73	70	78	76
1982	75	71	73	75	75	68	60	65	60	57	68	75	66
1983	72	71	79	78	74	71	65	54	58	60	62	67	67
1984	79	67	79	73	61	70	69	72	66	61	67	67	73
1985	77	76	68	75	61	77	70	60	67	70	67	72	72
1986	75	77	70	79	84	80	66	52	54	63	63	66	69
1987	80	82	77	76	73	78	69	67	70	60	64	73	73
1988	82	68	73	71	73	77	77	68	70	65	71	70	72
1989	73	72	70	74	70	74	66	60	56	60	62	74	66
1990	66	72	60	76	79	73	71	68	75	70	70	68	72
1991	74	63	71	71	72	76	70	65	74	65	59	76	74
1992	76	70	74	73	75	74	68	60	65	66	68	74	70
1993	76	70	74	73	75	74	68	60	65	66	68	74	70



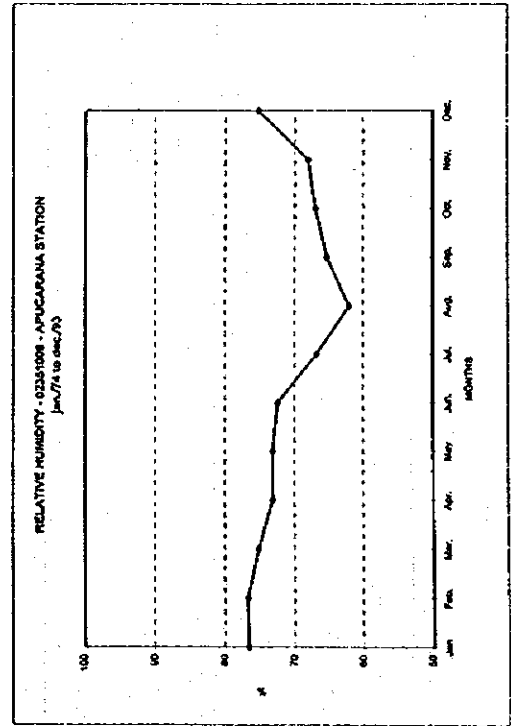
RELATIVE HUMIDITY (%)
02351003 - LONDORRA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1976	61	60	77	74	81	77	75	71	76	76	66	56	77
1977	81	70	73	73	70	78	64	82	85	85	77	75	71
1978	71	63	71	55	60	68	71	82	87	87	86	72	65
1979	68	71	67	70	75	67	73	85	73	71	68	79	70
1980	77	61	74	75	75	70	74	76	70	64	67	77	73
1981	82	78	71	69	68	61	61	55	52	73	72	60	70
1982	75	77	77	70	70	67	62	77	75	61	73	79	74
1983	80	79	78	80	86	86	86	72	58	80	74	68	77
1984	71	70	74	74	78	77	70	60	58	57	70	75	69
1985	71	76	81	80	76	74	67	67	60	57	59	61	68
1986	75	83	81	81	80	74	72	78	68	60	64	61	74
1987	61	61	69	69	70	62	60	60	69	71	67	73	74
1988	77	81	71	80	87	78	66	61	55	64	58	66	68
1989	85	84	76	77	74	80	71	73	63	65	76	75	75
1990	62	67	75	73	74	80	60	68	67	68	73	68	73
1991	74	72	60	70	70	73	68	82	91	85	82	73	70
1992	65	73	94	77	64	76	75	70	78	72	69	66	74
1993	73	82	74	74	74	80	72	64	78	61	59	73	73
Mean	76	76	75	74	76	76	71	65	67	66	67	74	73



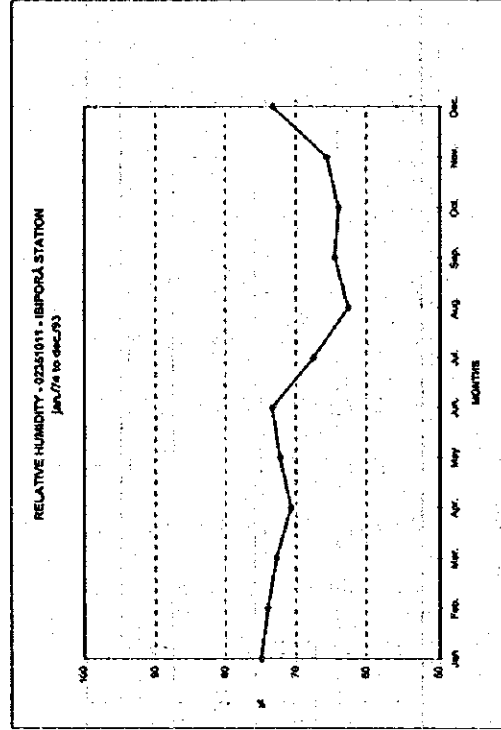
RELATIVE HUMIDITY (%)
02351008 - APUCARANA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	64	76	81	73	67	75	67	61	58	60	60	62	70
1975	76	66	83	79	76	76	68	62	71	77	81	69	77
1976	84	63	78	77	63	80	77	69	75	72	68	78	77
1977	63	71	75	70	60	60	62	62	64	66	60	76	71
1978	74	64	71	63	64	81	67	59	68	58	69	73	64
1979	67	72	67	71	73	67	69	62	73	69	69	82	70
1980	77	66	72	75	73	87	71	72	70	65	70	78	75
1981	63	76	79	60	66	73	57	61	48	74	72	82	65
1982	76	79	78	69	67	83	73	71	62	74	81	61	74
1983	62	60	78	80	66	66	70	55	78	74	67	74	76
1984	71	70	75	73	72	63	63	64	68	68	72	75	67
1985	71	80	69	60	60	66	66	65	66	60	64	60	67
1986	71	63	78	74	60	66	67	70	67	60	64	60	72
1987	62	80	65	75	81	73	64	61	67	68	66	72	72
1988	77	81	69	79	68	73	65	46	54	64	58	66	66
1989	66	64	78	73	71	76	62	69	67	59	66	73	72
1990	67	67	73	73	72	78	72	65	65	65	72	70	72
1991	73	66	80	74	64	72	62	60	56	69	62	78	68
1992	62	74	69	78	81	72	74	69	78	72	70	68	73
1993	74	82	72	71	70	74	64	58	71	73	60	74	74
Mean	77	77	75	73	73	73	67	62	65	67	66	75	71



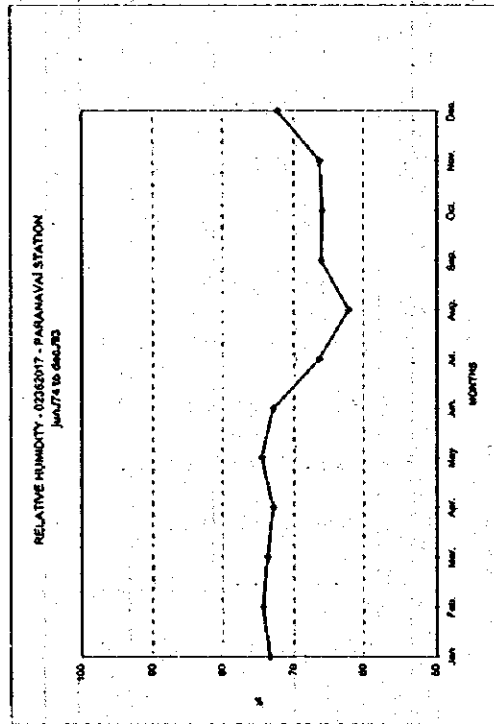
RELATIVE HUMIDITY (%)
02331011 - IBIPORA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	62	75	82	73	76	76	65	63	56	56	58	60	71
1975	74	70	75	68	69	69	72	64	55	60	70	76	70
1976	76	76	79	71	71	74	74	63	53	66	64	76	73
1977	79	69	69	67	64	74	62	60	63	62	75	74	69
1978	69	69	69	52	57	63	68	61	67	53	64	70	63
1979	64	64	64	65	65	70	68	71	65	71	66	70	69
1980	71	74	74	72	73	74	67	73	72	63	68	76	71
1981	81	73	68	65	64	72	60	64	52	58	70	79	67
1982	74	76	79	75	77	82	83	89	57	78	96	82	74
1983	78	76	75	77	82	93	89	57	78	96	82	74	73
1984	68	65	66	71	71	64	57	63	58	54	67	74	65
1985	70	76	77	78	72	74	64	54	58	63	60	61	69
1986	76	82	78	72	81	89	89	71	66	56	64	76	72
1987	81	79	68	74	81	78	75	62	67	71	87	70	72
1988	75	78	70	78	66	73	64	51	55	63	90	66	69
1989	84	83	77	75	72	78	66	69	68	60	65	74	73
1990	82	83	71	71	71	77	75	66	65	65	69	66	70
1991	71	89	76	74	80	73	63	61	59	67	59	73	69
1992	64	72	81	75	82	75	71	68	73	66	65	64	71
1993	75	83	71	72	73	77	66	63	75	66	67	74	71
Mean	75	74	73	71	72	73	66	63	65	64	66	73	70



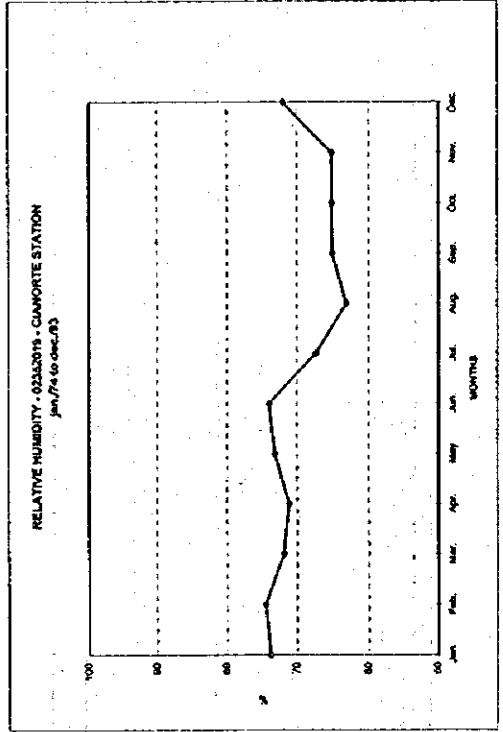
RELATIVE HUMIDITY (%)
02352017 - PARANAVAL STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	73	79	78	75	72	75	64	63	60	61	61	71	67
1975	78	72	72	67	65	72	73	65	63	72	75	81	72
1976	78	82	76	80	77	71	74	71	69	70	76	76	76
1977	81	70	73	76	77	76	59	57	67	64	76	75	71
1978	70	58	66	63	66	66	66	59	66	57	66	66	62
1979	66	71	66	70	73	64	66	60	72	67	66	79	69
1980	71	78	70	74	76	66	72	72	75	64	67	72	72
1981	76	75	71	68	65	75	58	63	52	72	66	78	68
1982	70	70	76	67	67	81	73	73	66	71	76	78	73
1983	77	78	76	79	83	84	71	56	78	72	87	74	75
1984	71	70	71	73	73	64	56	63	63	57	70	74	67
1985	69	79	79	76	74	69	65	66	60	59	68	66	67
1986	72	80	77	73	73	67	67	70	66	61	81	75	71
1987	78	79	63	63	61	74	66	64	70	72	72	72	72
1988	72	80	72	78	84	75	62	48	52	61	99	65	67
1989	84	81	77	76	71	77	63	69	69	60	63	71	72
1990	80	65	66	69	74	76	77	66	65	67	70	67	71
1991	68	67	67	71	71	73	63	57	58	64	58	74	67
1992	82	88	80	79	83	73	75	73	76	66	63	73	73
1993	73	81	76	77	75	78	70	62	73	68	60	70	72
Mean	75	74	74	73	75	73	66	62	64	66	66	72	70



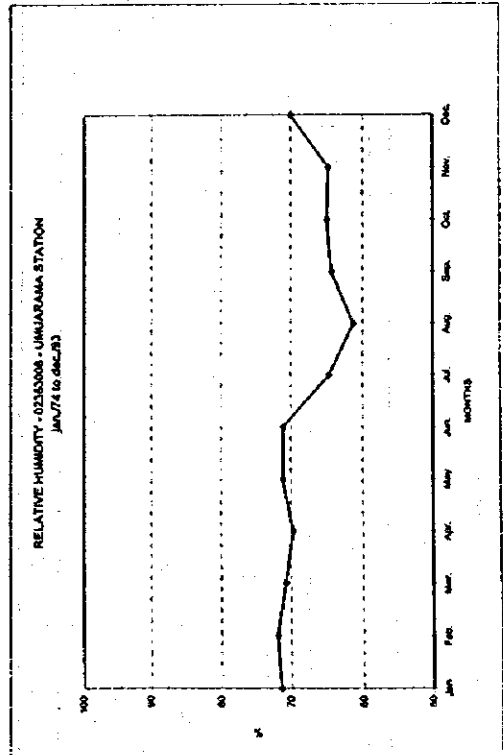
RELATIVE HUMIDITY (%)
02352019 - CANORTE STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	82	78	77	77	87	78	65	63	67	66	64	76	70
1975	73	80	77	74	74	75	65	60	65	71	72	78	72
1976	79	75	73	70	78	74	69	66	74	67	63	73	72
1977	81	70	71	68	67	73	60	61	58	55	72	74	67
1978	69	59	66	66	48	51	61	67	56	67	65	60	61
1979	63	67	65	60	60	74	64	70	62	72	68	67	66
1980	72	70	70	73	75	70	72	73	71	66	67	74	72
1981	78	77	67	64	65	75	57	55	72	72	67	78	67
1982	68	76	75	65	67	82	72	71	63	73	60	77	72
1983	77	78	74	80	85	86	75	66	78	71	64	72	75
1984	70	70	71	73	73	67	59	65	57	58	72	73	67
1985	67	70	76	78	73	71	66	66	61	59	56	56	67
1986	72	63	77	74	63	70	69	72	67	70	63	77	72
1987	76	80	65	76	81	76	71	65	70	70	66	72	72
1988	74	80	80	68	70	84	74	65	50	61	56	64	67
1989	85	83	76	75	71	60	64	70	68	58	63	71	72
1990	85	87	76	75	75	75	77	68	66	68	70	66	77
1991	85	66	74	74	68	68	73	63	69	66	58	73	65
1992	62	64	76	76	61	73	74	70	71	73	72	64	72
1993	71	72	77	71	72	71	68	69	73	68	56	70	70
Mean	74	75	72	71	73	74	67	63	65	65	65	72	70



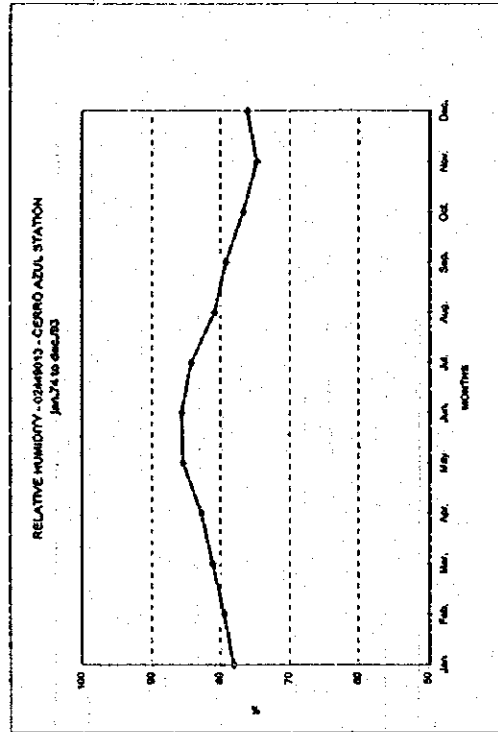
RELATIVE HUMIDITY (%)
02353008 - UMIARAMA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	61	74	77	68	66	64	64	68	61	65	61	75	70
1975	71	79	76	77	72	77	58	62	66	72	70	78	71
1976	77	72	70	70	76	67	67	64	73	67	65	73	71
1977	80	70	66	66	66	66	68	64	65	61	78	70	68
1978	65	55	66	66	48	51	64	59	66	56	65	63	60
1979	60	68	65	71	75	67	67	59	65	67	65	77	67
1980	68	70	66	66	66	66	66	66	66	65	66	71	66
1981	74	76	65	64	61	73	64	63	64	71	67	78	66
1982	64	76	75	62	65	66	68	68	64	71	76	75	71
1983	74	74	72	72	76	65	78	72	72	66	66	66	73
1984	70	68	68	70	68	65	63	63	63	68	72	71	65
1985	66	77	70	66	66	67	62	58	61	58	54	51	65
1986	69	79	73	73	61	64	65	68	65	68	61	70	69
1987	77	76	64	75	61	71	66	63	71	71	63	69	71
1988	72	76	65	77	63	77	69	44	50	60	67	64	66
1989	85	82	74	75	66	76	62	67	66	56	62	68	71
1990	80	66	65	73	75	76	76	67	64	68	69	68	70
1991	63	62	72	67	65	70	57	55	56	63	56	72	63
1992	62	64	76	76	61	73	74	70	70	70	65	63	71
1993	71	72	70	68	69	73	65	65	68	66	67	72	67
Mean	71	72	71	70	71	71	65	61	64	65	65	70	69



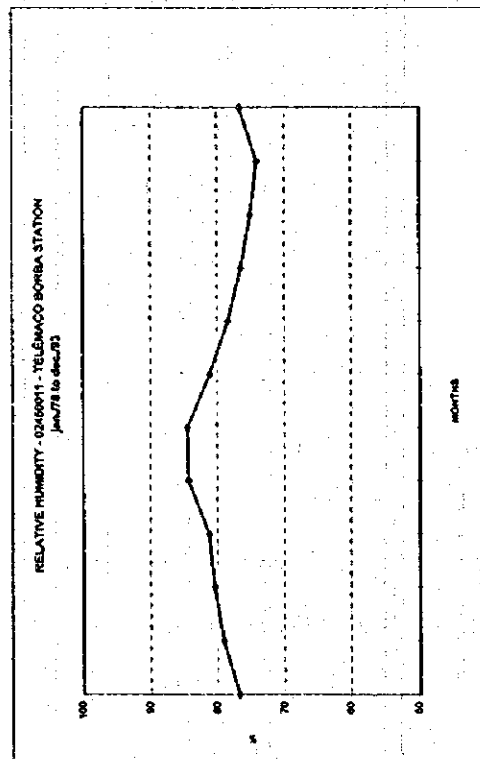
RELATIVE HUMIDITY (%)
02446013 - CERRO AZUL STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	76	76	76	62	63	67	65	65	78	74	70	78	74
1975	79	84	81	82	84	85	83	77	75	75	75	79	80
1976	81	79	79	80	82	86	84	81	82	77	72	76	81
1977	76	77	80	82	83	88	88	82	78	78	75	78	79
1978	73	70	81	79	79	80	85	80	77	70	76	73	77
1979	73	77	75	81	86	85	84	81	81	81	78	77	80
1980	77	86	80	80	86	85	84	84	80	77	75	79	81
1981	80	77	79	78	85	84	82	80	74	79	74	74	79
1982	76	82	81	80	82	87	88	83	83	81	82	77	81
1983	78	81	83	83	88	90	84	81	84	84	77	74	82
1984	76	71	80	85	86	87	86	85	79	74	80	79	81
1985	76	82	85	89	86	85	82	71	77	72	88	89	78
1986	76	83	83	85	88	88	88	83	83	78	78	76	83
1987	82	83	78	85	91	89	86	82	82	82	81	76	83
1988	78	86	83	84	86	77	84	80	78	78	72	74	78
1989	83	83	81	84	84	88	84	80	80	80	73	77	81
1990	88	77	82	84	84	87	88	82	81	80	78	77	82
1991	74	81	86	85	88	88	88	80	76	78	73	78	81
1992	73	79	84	82	88	88	88	84	81	78	73	72	84
1993	84	87	82	84	88	88	88	82	84	82	77	75	82
Mean	78	79	81	83	85	88	84	81	79	77	75	76	80



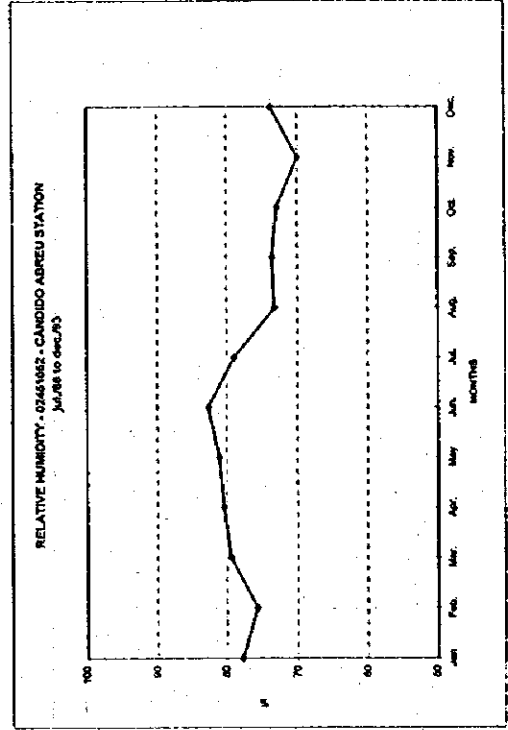
RELATIVE HUMIDITY (%)
02450011 - TELÉNAGO BORBA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1975	73	71	78	80	73	76	60	77	78	67	73	74	74
1976	68	74	73	78	84	81	82	81	81	75	75	79	78
1977	77	81	80	83	85	83	82	84	79	76	74	82	80
1981	82	78	79	78	82	83	71	71	64	78	75	81	77
1982	75	82	80	76	81	86	88	84	84	81	88	80	81
1983	81	82	84	86	88	90	83	78	84	78	76	78	82
1984	78	73	81	81	85	84	80	81	74	72	76	79	79
1985	72	83	83	84	84	82	80	73	77	71	67	68	77
1986	74	86	84	82	89	84	83	83	77	71	75	83	81
1987	82	77	77	85	87	86	82	79	80	78	74	77	80
1988	80	84	79	84	90	87	78	70	69	72	67	72	78
1989	86	85	81	83	84	87	80	81	77	71	72	74	80
1990	73	83	81	83	82	86	88	78	77	77	78	70	80
1991	74	73	81	82	83	84	80	78	72	77	70	77	78
1992	66	77	86	84	87	85	84	82	80	78	75	79	80
1993	80	85	80	81	84	85	81	77	81	77	80	76	80
Mean	77	79	80	81	84	84	81	78	77	75	74	77	79



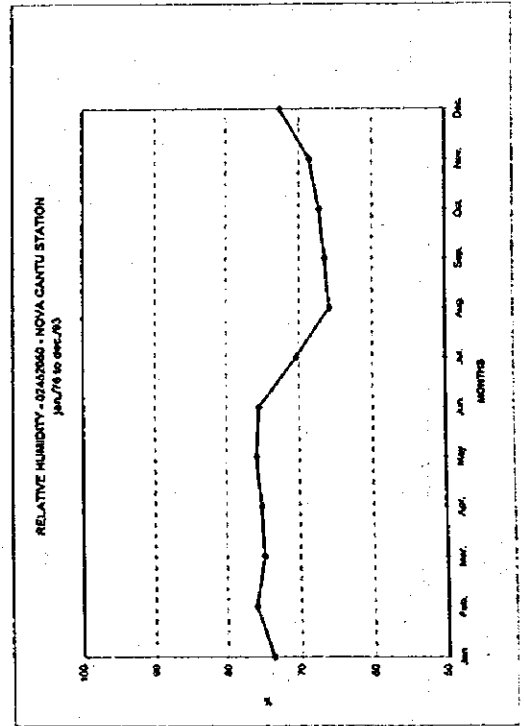
RELATIVE HUMIDITY (%)
02451062 - CANDIDO ABREU STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1998	99	85	80	81	81	85	83	76	74	74	74	76	76
1999	85	71	78	81	80	81	82	72	71	67	68	76	76
2000	85	71	78	81	80	81	82	72	71	67	68	76	76
1991	85	71	78	81	80	81	82	72	71	67	68	76	76
1992	85	71	78	81	80	81	82	72	71	67	68	76	76
1993	85	71	78	81	80	81	82	72	71	67	68	76	76
Mean	78	78	79	80	81	83	79	73	74	73	70	74	78



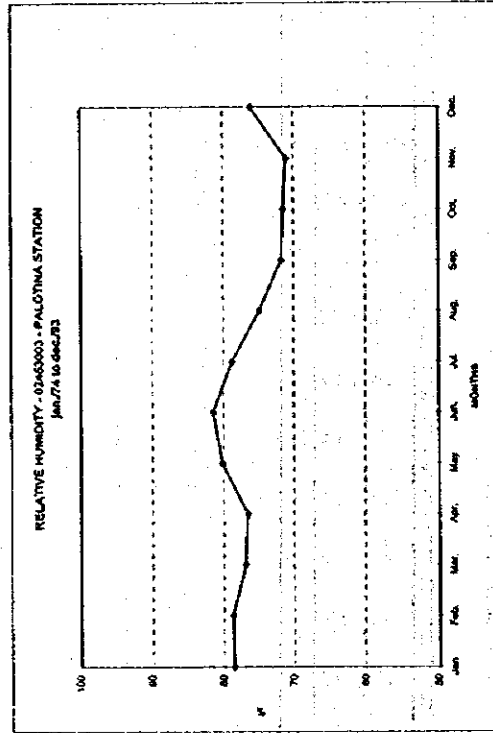
RELATIVE HUMIDITY (%)
02452050 - NOVA CANTU STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1976	81	76	77	75	73	74	72	66	67	73	66	68	74
1977	81	76	77	75	73	74	72	66	67	73	66	68	74
1978	81	76	77	75	73	74	72	66	67	73	66	68	74
1979	81	76	77	75	73	74	72	66	67	73	66	68	74
1980	81	76	77	75	73	74	72	66	67	73	66	68	74
1981	81	76	77	75	73	74	72	66	67	73	66	68	74
1982	81	76	77	75	73	74	72	66	67	73	66	68	74
1983	81	76	77	75	73	74	72	66	67	73	66	68	74
1984	81	76	77	75	73	74	72	66	67	73	66	68	74
1985	81	76	77	75	73	74	72	66	67	73	66	68	74
1986	81	76	77	75	73	74	72	66	67	73	66	68	74
1987	81	76	77	75	73	74	72	66	67	73	66	68	74
1988	81	76	77	75	73	74	72	66	67	73	66	68	74
1989	81	76	77	75	73	74	72	66	67	73	66	68	74
1990	81	76	77	75	73	74	72	66	67	73	66	68	74
1991	81	76	77	75	73	74	72	66	67	73	66	68	74
1992	81	76	77	75	73	74	72	66	67	73	66	68	74
1993	81	76	77	75	73	74	72	66	67	73	66	68	74
Mean	74	74	74	74	74	74	74	74	74	74	74	74	74



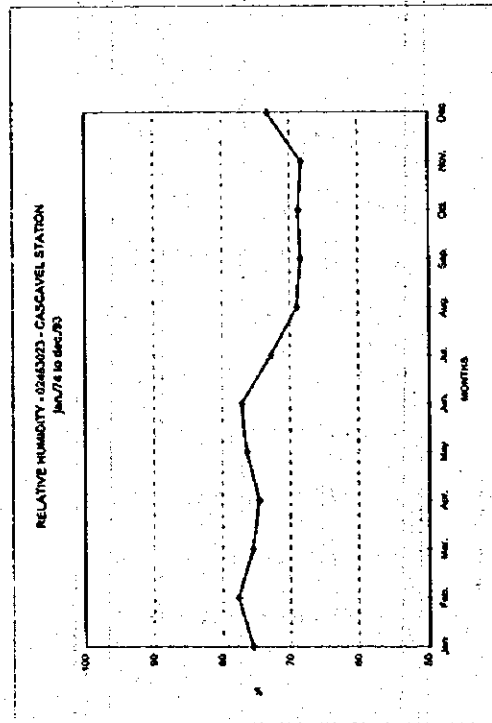
RELATIVE HUMIDITY (%)
02455003 - PALOTINA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	84	81	84	81	88	90	86	84	82	74	60	66	78
1975	86	86	84	84	85	85	83	83	83	71	72	79	79
1976	82	81	77	76	81	82	79	76	76	63	57	76	77
1977	84	78	77	71	77	78	67	71	65	55	77	78	74
1978	82	85	97	54	60	72	82	76	74	65	73	78	70
1979	73	72	68	77	86	82	89	76	72	73	72	62	78
1980	80	82	74	71	77	76	80	80	75	72	69	78	78
1981	80	78	71	67	73	81	68	67	63	77	76	84	74
1982	73	79	78	71	79	87	83	80	75	78	69	78	78
1983	82	82	78	82	80	87	88	84	74	81	77	71	74
1984	80	76	78	79	80	81	75	78	67	65	76	77	76
1985	75	80	82	81	78	78	77	78	68	67	60	60	74
1986	74	83	81	81	85	77	79	80	75	68	67	78	78
1987	81	83	73	80	85	82	80	77	71	75	71	79	78
1988	80	83	73	81	86	76	76	68	61	68	63	67	73
1989	87	86	92	79	79	67	80	78	76	66	66	70	78
1990	87	77	75	75	82	85	85	78	72	75	74	72	78
1991	68	71	71	76	76	72	61	59	65	70	63	79	72
1992	71	73	81	84	87	81	81	79	75	78	70	74	78
1993	80	77	76	76	76	81	79	80	74	73	89	77	76
Mean	79	79	77	77	80	82	79	75	72	72	71	76	76



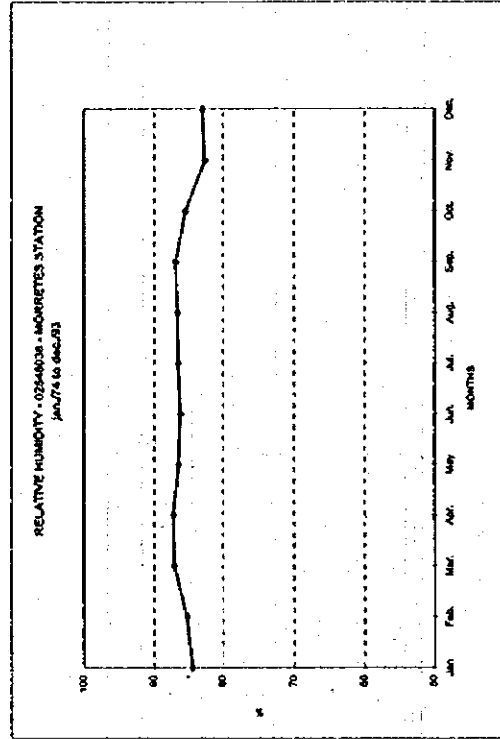
RELATIVE HUMIDITY (%)
02463023 - CASCABEL STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	81	80	81	77	77	77	68	67	62	63	63	74	72
1975	76	80	81	77	77	77	68	65	68	70	65	70	74
1976	81	76	74	73	60	78	74	67	73	68	72	75	74
1977	83	75	78	72	74	77	68	71	66	66	78	73	74
1978	89	83	88	81	82	85	73	65	68	60	60	68	64
1979	65	64	72	68	68	74	76	77	71	73	68	82	73
1980	72	81	75	75	76	76	74	76	72	71	71	78	75
1981	83	81	72	70	70	76	63	63	66	74	73	81	72
1982	82	78	80	80	80	80	74	76	68	76	85	76	78
1983	85	82	75	86	87	87	84	89	78	76	70	70	78
1984	77	74	78	79	79	76	70	67	57	63	78	71	73
1985	69	82	80	87	73	72	72	67	66	66	60	56	71
1986	72	82	78	80	85	73	74	74	70	64	68	77	71
1987	79	81	87	89	83	76	78	71	69	73	81	73	76
1988	76	79	86	80	88	84	88	88	97	83	86	85	79
1989	85	82	77	76	73	83	68	73	74	63	68	72	74
1990	85	78	76	78	80	87	72	72	72	72	72	72	74
1991	67	70	74	74	73	76	68	66	64	69	60	71	70
1992	70	77	84	78	84	79	80	78	75	75	66	70	77
1993	81	81	76	73	74	79	75	64	70	60	62	75	74
Mean	76	78	78	77	77	73	69	69	69	69	68	68	73



RELATIVE HUMIDITY (%)
02546038 - MORRETES STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	84	86	85	87	85	89	90	92	91	89	87	86	87
1975	87	87	86	84	81	80	86	88	87	88	87	87	86
1976	86	82	87	87	85	88	88	88	87	88	80	79	84
1977	86	82	86	86	89	89	86	87	86	85	87	81	84
1978	84	84	86	83	78	83	83	83	83	82	82	82	83
1979	84	84	84	85	86	83	80	83	87	85	81	84	85
1980	82	87	87	85	80	87	88	89	84	84	81	87	85
1981	85	84	83	87	87	82	84	83	83	81	83	84	84
1982	83	86	86	81	85	86	88	90	83	83	87	83	86
1983	86	86	86	89	92	90	90	85	90	86	87	85	86
1984	80	81	84	87	88	85	85	85	84	84	86	86	85
1985	83	84	84	87	90	83	82	81	81	82	82	79	84
1986	82	88	88	88	88	85	86	89	89	83	85	86	86
1987	85	86	86	85	88	87	88	86	88	88	84	82	86
1988	84	88	84	84	90	91	87	84	84	81	88	83	88
1989	86	86	86	86	88	87	88	84	86	87	82	84	85
1990	88	89	82	89	88	83	87	89	87	88	89	86	86
1991	82	82	86	86	85	88	83	86	85	85	81	78	84
1992	81	85	88	84	90	87	90	90	89	84	84	80	86
1993	84	86	88	84	88	88	88	85	91	87	77	84	85
Mean	84	85	87	87	87	86	87	87	87	86	83	83	86



RELATIVE HUMIDITY (%)
02546039 - GUARAJUECABA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1978	84	84	87	85	83	87	87	82	83	84	84	84	85
1979	86	85	88	87	87	90	88	90	87	86	83	84	87
1980	83	87	86	89	91	88	88	90	86	86	83	80	87
1981	88	85	88	87	84	88	88	88	84	87	83	84	87
1982	83	87	89	89	89	90	88	88	86	84	83	83	86
1983	85	88	88	91	92	88	91	88	90	86	83	84	88
1984	81	81	88	87	88	87	88	90	84	87	86	85	88
1985	84	86	89	90	86	87	87	85	83	83	83	79	86
1986	81	80	88	88	88	88	88	88	88	83	84	87	87
1987	85	86	84	89	91	88	88	88	89	86	82	83	86
1988	83	84	84	88	88	88	88	85	87	85	85	83	87
1989	86	84	84	88	89	90	87	88	87	84	79	84	86
1990	87	82	88	88	87	88	88	88	84	87	82	81	86
1991	82	83	85	84	84	88	84	87	86	83	79	84	84
1992	80	83	83	82	88	88	88	88	88	84	81	78	84
1993	79	85	83	83	88	88	85	85	84	85	78	83	84
Mean	83	85	87	87	88	88	88	88	87	86	82	83	86

