

I-E

Watershed Management

E. Watershed Management

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E.1 RAINFALL RECORDS

a) Monthly Rainfall Totals for Chileka, Chichiri and Makoka during last decade

Monthly Rainfall Totals for Chileka Airport in mm													
YEAR	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	TOTAL
1989/90	0.0	6.1	5.6	17.3	127.6	216.2	228.4	58.2	26.8	51.5	38.4	2.0	778.1
1990/91	0.0	1.1	13.6	3.6	57.1	110.4	188.4	198.2	190.9	61.8	8.4	0.0	833.5
1991/92	0.0	0.0	0.0	65.3	121.2	48.8	198.1	20.5	161.5	27.7	0.0	9.4	652.5
1992/93	0.7	0.7	0.0	29.3	87.1	83.1	285.1	137.3	30.8	72.5	8.6	8.3	743.5
1993/94	0.1	0.1	14.3	38.4	67.9	131.8	192.6	94.4	51.5	103.6	0.0	0.8	695.5
1994/95	0.0	0.0	0.0	18.5	6.7	116.4	214.8	116.4	65.0	5.4	2.3	0.5	546.0
1995/96	0.0	0.7	0.0	0.0	119.2	281.6	175.2	229.1	151.8	7.3	4.3	0.0	969.2
1996/97	0.0	0.7	0.0	6.4	93.8	293.3	357.2	592.6	59.6	27.6	0.0	0.0	1,431.2
1997/98	0.8	0.0	7.9	63.9	77.7	195.7	285.2	235.6	117.8	1.1	0.6	0.0	986.3
1998/99	0.3	0.0	0.0	1.7	66.7	123.6	333.2	234.1	109.1	86.1	0.0	0.0	954.8
Mean	0.2	0.9	4.1	24.4	82.5	160.1	245.8	191.6	96.5	44.5	6.3	2.1	859.1

Monthly Rainfall Totals for Chichiri Met. in mm													
YEAR	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	TOTAL
1989/90	4.3	15.4	1.4	18.5	149.7	229.5	302.3	109.9	30.1	22.0	40.1	10.2	933.4
1990/91	1.1	9.8	1.7	3.8	80.5	100.1	198.3	252.0	182.2	36.4	1.1	6.8	873.8
1991/92	13.0	4.4	1.7	54.6	105.8	166.0	206.7	9.0	118.7	90.5	1.7	15.8	787.9
1992/93	7.8	21.1	0.0	13.2	76.3	169.0	426.1	247.0	123.4	467.7	3.3	49.1	1,604.0
1993/94	11.5	9.0	2.8	45.5	79.3	125.2	330.7	207.1	150.2	70.9	0.7	7.9	1,040.8
1994/95	0.0	0.0	83.0	0.0	27.0	131.1	257.2	130.7	28.2	7.6	20.7	10.0	695.5
1995/96	7.9	0.0	0.0	0.0	184.6	421.0	211.7	269.2	126.2	32.8	8.9	0.0	1,262.3
1996/97	3.9	0.0	0.0	0.0	33.7	314.0	432.0	489.6	158.0	51.0	12.5	7.2	1,501.9
1997/98	4.1	2.0	5.1	35.1	76.5	287.6	266.1	168.2	159.0	25.5	0.3	4.7	1,034.2
1998/99	5.2	7.2	0.0	12.5	109.4	215.8	384.6	305.7	263.1	93.5	0.1	18.6	1,415.7
Mean	5.9	6.9	9.6	18.3	92.3	215.9	301.6	218.8	133.9	89.8	8.9	13.0	1,115.0

Monthly Rainfall Totals for Makoka in mm													
YEAR	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	TOTAL
1989/90	1.1	3.3	0.0	0.4	41.2	338.1	331.5	92.1	73.4	98.2	28.2	0.6	1,008.1
1990/91	0.0	6.2	2.1	0.4	82.4	142.7	244.5	341.2	164.5	43.4	1.3	1.8	1,030.5
1991/92	3.2	0.0	1.1	11.4	109.4	181.9	143.0	19.8	84.7	12.0	0.0	12.8	579.3
1992/93	1.9	0.2	0.0	0.0	25.6	176.4	211.7	318.0	154.9	79.4	0.0	9.6	977.7
1993/94	0.0	0.0	0.3	10.5	46.7	172.7	196.4	58.3	46.9	3.8	1.4	1.5	538.5
1994/95	0.0	0.0	0.0	24.6	3.2	81.1	323.0	113.1	12.9	29.2	5.7	2.4	595.2
1995/96	0.2	4.5	0.0	0.0	19.5	241.9	190.2	240.8	236.8	23.4	7.4	1.0	965.7
1996/97	1.6	0.0	0.0	1.2	56.0	394.9	481.4	397.8	153.1	114.1	2.0	0.0	1,602.1
1997/98	0.9	2.0	0.5	6.8	46.9	190.7	234.3	169.0	110.6	41.3	6.3	4.2	813.5
1998/99	4.7	1.7	0.0	23.3	80.3	65.5	201.5	307.0	139.2	188.0	6.6	0.9	1,018.7
Mean	1.4	1.8	0.4	7.9	51.1	198.6	255.8	205.7	117.7	63.3	5.9	3.5	912.9

CHILEKA

AL DEPARTMENT													
ALL TOTALS (mm)													
	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	SEASONAL
1938/39						7.33	9.95	6.42	6.74	1.1			31.54
1939/40													0
1940/41	0.03	0	0	1.97	3.47	6.7	10.15	2.86	1.53	0.78	0.36	0.05	27.9
1941/42	0.54	0.17	0.57	0.64	4.1	3.68	6.92	7.93	2.94	0.35	0.36	0	28.2
1942/43	0.01	0.43	0	2.09	1.84	4.7	10.27	7.59	13.27	2.78	0	0.6	43.58
1943/44	0	0	0.55	0.1	2.21	3.87	3.41	10.43	4.35	0.05	1.01	0.07	26.05
1944/45	0.18	0	0	0.81	4.02	4.97	10.33	8.64	7.18	1.16	0.08	0.14	37.51
1945/46	0.12	0	0	0.11	3.5	6.09	8.45	12.41	7.28	1.28	0.33	0.09	39.66
1946/47	0.21	0.06	0.34	0	7.77	7.95	8.53	4.71	8.37	3.81	0.07	0	41.82
1947/48	0.1	0	0.02	1.45	3.04	4.87	5.2	11.92	4.68	3.03	0.06	0.01	34.38
1948/49	0.14	0.02	0.04	1.36	4.38	1.86	1.2	1.58	3.99	0.81	0.6	0.08	16.06
1949/50	0.02	0	0	0.79	1.6	6.77	15.94	8.93	8.5	2.41	0.08	0.02	45.06
1950/51	0.12	0.01	0	0.99	1.85	6.66	11.4	5.45	6.08	0.8	0.07	0.02	33.45
1951/52	0.04	0.18	0	1.43	4.74	6.39	13.65	10	2.95	1.09	0.17	0.26	40.9
1952/53	0	0	0	1.6	3.44	5.14	10.19	3.3	3.09	0.16	0	0.09	27.01
1953/54	0.2	0	0	0.5	1.88	8.2	2.35	6.75	2.42	0.23	0.23	0.03	22.79
1954/55	0.01	0.04	1.39	0.31	5.64	5.96	7.96	9.04	3.9	3.04	0	0.02	37.31
1955/56	0.11	0	0.03	0.92	1.69	9.21	4.83	4.71	7.18	2.74	1.74	0.25	33.41
1956/57	0.01	0	0.12	0.25	4.93	9.97	10.76	3.7	1.96	2.32	0.3	0.11	34.43
1957/58	0	0	0	0.18	1.12	8.01	6.35	10.62	0.13	2.09	0.01	0.1	28.61
1958/59	0.15	0.06	0.3	0.06	3.03	4.36	7.84	5.17	0.36	0.83	0.3	1.01	23.47
1959/60	0	0.04	0.59	1.35	0.44	7.17	4.33	3.2	3.83	0.96	1.89	0.21	24.01
1960/61	3.6	0.0	1.8	24.6	68.1	336.3	197.9	118.9	159.3	94.5	4.8	1.0	1010.8
1961/62	16.8	1.5	2.8	75.7	82.8	96.3	327.2	49.0	200.7	22.6	3.3	0.0	878.7
1962/63	1.5	0.8	0.5	5.3	93.0	310.1	269.0	259.1	118.6	13.2	0.0	0.0	1071.1
1963/64	1.3	0.0	0.0	49.0	27.9	117.9	278.4	116.6	74.9	1.8	0.3	4.3	672.4
1964/65	2.5	2.5	0.0	0.3	118.9	178.1	119.1	161.5	94.2	52.3	2.5	1.8	733.7
1965/66	0.5	0.0	1.0	11.2	48.3	181.4	137.4	308.1	82.3	46.0	9.9	6.9	833
1966/67	7.1	0.0	0.0	0.0	54.9	295.9	168.7	119.9	370.6	17.3	12.4	1.3	1048.1
1967/68	5.1	1.0	2.3	30.0	71.1	30.0	114.0	189.0	25.7	57.2	0.5	2.5	528.4
1968/69	0.3	1.0	0.0	0.0	55.1	197.9	284.5	133.4	180.6	82.3	0.5	1.5	937.1
1969/70	0.0	7.6	26.4	9.1	52.6	251.5	131.3	55.1	23.6	19.6	9.1	0.0	585.9
1970/71	0.0	0.0	0.0	5.8	170.2	276.6	249.7	90.4	58.4	57.2	9.4	4.3	922
1971/72	0.3	0.0	2.0	13.5	175.8	144.5	366.8	172.5	82.3	54.4	42.4	0.0	1054.5
1972/73	0.8	0.0	0.0	13.5	75.9	85.9	198.1	60.7	86.6	35.1	0.0	2.5	559.1
1973/74	2.3	0.0	0.0	58.4	78.5	231.9	182.1	258.1	309.9	43.9	81.8	11.9	1258.8
1974/75	5.1	2.3	0.0	0.0	142.2	266.7	107.4	140.7	23.1	38.1	1.3	2.0	728.9
1975/76	0.0	0.8	0.0	11.4	90.4	67.8	181.4	229.9	192.8	80.8	0.8	0.0	856.1
1976/77	0.0	0.0	0.0	35.6	65.0	363.7	184.7	217.7	209.6	6.4	0.0	0.0	1082.7
1977/78	0.3	0.0	6.9	6.9	104.6	132.3	168.4	297.9	355.9	63.0	14.7	2.5	1153.4
1978/79	0.5	0.0	0.0	45.0	72.6	231.9	76.5	102.1	168.9	50.0	0.0	2.8	750.3
1979/80	6.9	8.4	0.0	36.6	199.9	64.5	59.9	259.1	174.2	39.9	0.8	2.5	852.7
1980/81	0.0	0.0	10.0	26.7	18.3	256.3	146.1	245.0	173.8	12.8	4.0	0.0	893.0
1981/82	1.3	0.0	0.0	53.9	27.1	81.0	143.0	418.9	34.4	57.1	11.9	0.0	828.6
1982/83	12.0	1.3	0.0	46.7	87.9	104.5	198.3	91.7	86.3	57.0	2.1	7.9	695.7
1983/84	12.0	0.0	0.0	130.4	27.2	83.6	59.3	233.4	326.2	69.0	14.4	0.6	956.1
1984/85	0.6	0.0	21.7	10.0	166.0	199.2	218.9	230.9	345.1	77.5	11.7	0.5	1282.1
1985/86	2.2	1.1	22.6	45.1	99.3	264.3	302.4	164.0	67.0	60.4	0.0	0.0	1028.4
1986/87	0.3	0.0	0.0	113.0	211.3	145.0	265.7	68.0	47.1	2.3	0.4	1.6	854.7
1987/88	0.5	0.0	1.1	36.7	139.6	181.8	243.2	268.3	72.7	170.0	15.4	0.8	1130.1
1988/89	0.0	0.0	0.0	58.0	75.3	102.7	330.1	322.9	246.6	3.5	3.6	0.7	1143.4
1989/90	0.0	6.1	5.6	17.3	127.6	216.2	228.4	58.2	26.8	51.5	38.4	2.0	778.1
1990/91	0.0	1.1	13.6	3.6	57.1	110.4	188.4	198.2	190.9	61.8	8.4	0.0	833.5
1991/92	0.0	0.0	0.0	65.3	121.2	48.8	198.1	20.5	161.5	27.7	0.0	9.4	652.5
1992/93	0.7	0.7	0.0	29.3	87.1	83.1	285.1	137.3	30.8	72.5	8.6	8.3	743.5
1993/94	0.1	0.1	14.3	38.4	67.9	131.8	192.6	94.4	51.5	103.6	0.0	0.8	695.5
1994/95	0.0	0.0	0.0	18.5	6.7	116.4	214.8	116.4	65.0	5.4	2.3	0.5	546.0
1995/96	0	0.7	0	0	119.2	281.6	175.2	229.1	151.8	7.3	4.3	0	
1996/97	0	0.7	0	6.4	93.8	293.3	357.2	592.6	59.6	27.6	0	0	
1997/98	0	0	0	63.5	77.7	195.5	285.2						

	CHICHIRI : MONTHLY AND SEASONAL RAINFALL TOTALS (mm)												
	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	SEASONAL
1966-67	26.8	1.1	0.0	0.0	81.8	145.3	138.5	239.8	410.6	61.2	16.2	19.4	1140.7
1967-68	21.4	11.4	11.3	14.3	73.3	73.2	170.6	202.2	49.2	43.8	4.4	8.7	683.8
1968-69	4.8	8.3	1.0	0.0	127.1	176.8	478.8	180.3	190.2	186.8	9.5	12.7	1376.3
1969-70	4.8	15.2	2.7	50.0	35.6	433.9	145.9	101.2	24.6	54.0	27.1	4.5	899.5
1970-71	7.0	1.0	0.0	29.2	259.7	293.9	412.3	89.4	104.4	34.6	13.5	15.8	1260.8
1971-72	1.5	0.0	4.3	21.0	130.6	109.6	338.0	164.4	138.9	105.9	14.3	13.1	1041.6
1972-73	9.0	6.5	0.0	5.3	151.5	120.8	220.2	131.6	180.0	94.3	6.5	21.7	947.4
1973-74	24.0	1.2	0.8	29.4	89.8	179.3	305.6	288.7	293.5	54.6	26.0	19.2	1312.1
1974-75	37.6	4.2	2.2	1.7	103.9	297.0	197.0	143.2	131.3	42.5	11.8	11.3	983.7
1975-76	2.6	7.9	0.0	29.1	84.8	211.8	354.8	211.8	300.1	99.5	22.1	11.0	1335.5
1976-77	17.2	0.0	0.3	33.7	29.8	456.3	275.4	296.5	149.7	35.3	7.8	3.5	1305.5
1977-78	3.4	1.6	3.0	22.5	85.7	210.8	190.9	309.0	408.7	93.5	35.2	13.6	1377.9
1978-79	9.4	0.0	0.0	50.6	83.6	172.9	103.8	162.1	215.0	37.7	2.5	39.9	877.5
1979-80	17.2	18.2	3.2	13.2	302.4	121.3	72.3	214.7	281.3	89.9	3.7	16.5	1153.9
1980-81	5.9	4.5	14.6	19.7	6.7	262.1	127.0	230.1	212.0	51.9	10.6	3.0	948.1
1981-82	14.8	0.0	2.5	45.9	29.0	144.2	202.9	370.6	144.6	93.4	21.0	10.5	1079.4
1982-83	47.4	8.3	0.1	52.6	75.6	235.0	216.7	75.0	65.8	7.1	12.3	10.3	806.2
1983-84	39.1	3.6	0.0	55.6	46.4	200.5	318.0	318.0	239.2	88.1	58.3	6.5	1373.3
1984-85	3.5	6.9	6.4	112.7	161.1	289.0	362.9	138.6	258.9	113.2	0.5	4.0	1457.7
1985-86	18.8	19.8	26.2	17.7	125.3	265.7	420.2	211.8	157.9	91.5	2.2	12.4	1369.5
1986-87	6.3	0.0	9.3	88.6	214.1	205.6	251.7	140.5	180.6	23.2	2.7	22.1	1144.7
1987-88	2.2	0.1	0.6	34.3	48.3	205.8	232.6	354.3	148.3	41.9	34.9	30.5	1133.8
1988-89	3.4	4.4	0.0	89.3	141.1	77.3	289.1	310.8	252.9	28.3	1.9	4.7	1203.2
1989/90	4.3	15.4	1.4	18.5	149.7	229.5	302.3	109.9	30.1	22.0	40.1	10.2	933.4
1990/91	1.1	9.8	1.7	3.8	80.5	100.1	198.3	252.0	182.2	36.4	1.1	6.8	873.8
1991/92	13.0	4.4	1.7	54.6	105.8	166.0	206.7	9.0	118.7	90.5	1.7	15.8	787.9
1992/93	7.8	21.1	0.0	13.2	76.3	169.0	426.1	247.0	123.4	467.7	3.3	49.1	1604
1993/94	11.5	9.0	2.8	45.5	79.3	125.2	330.7	207.1	150.2	70.9	0.7	7.9	1040.8
1994/95	0.0	0.0	83.0	0.0	27.0	131.1	257.2	130.7	28.2	7.6	20.7	10.0	695.5
1995/96	7.9	0.0	0.0	0.0	184.6	421.0	211.7	269.2	126.2	32.8	8.9	0.0	1262.3
1996/97	5.7	0.3	0.0	0.0	33.7	260.7	431.8	489.6	158.0				1379.8

MAKOKA

METEOROLOGICAL DEPARTMENT																
MAKOKA : MONTHLY AND SEASONAL RAINFALL TOTALS (mm)																
JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	SEASONA				
1964-1965				30.5	190.0	204.7	82.6	146.1	34.0	8.6	0.8	697.3				
1965-1966	0.0	1.3	30.0	18.5	185.4	142.7	326.9	103.6	24.4	6.1	14.0	1050.5				
1966-1967	2.8	0.0	0.8	4.6	73.9	174.2	217.9	115.3	32.3	16.8	8.1	959.1				
1967-1968	39.6	10.4	7.9	4.3	84.6	117.3	203.5	130.8	48.3	71.1	0.8	757.0				
1968-1969	0.0	2.8	0.0	0.0	158.0	160.0	159.5	205.2	104.1	39.1	0.0	829.7				
1969-1970	0.8	1.5	5.6	26.4	7.4	281.4	487.9	181.4	11.4	25.9	13.5	1046.0				
1970-1971	0.8	1.8	0.0	63.0	196.1	226.3	380.7	82.8	135.1	28.4	15.7	1130.7				
1971-1972	0.3	0.0	0.0	8.9	107.2	212.1	250.7	192.3	115.8	111.3	77.7	1076.8				
1972-1973	3.6	1.5	0.0	13.7	73.9	165.1	262.6	227.8	160.5	82.8	2.5	1004.2				
1973-1974	0.5	0.0	0.0	18.5	104.4	169.2	260.4	180.1	397.3	38.9	27.9	1233.0				
1974-1975	14.5	1.5	0.0	3.3	48.8	201.4	120.9	172.2	79.2	95.5	2.0	740.1				
1975-1976	1.5	2.5	0.0	8.9	73.9	204.7	221.7	285.0	313.4	115.3	12.2	1240.6				
1976-1977	1.3	0.0	0.3	21.6	58.4	287.8	135.1	233.7	173.7	11.7	0.0	924.4				
1977-1978	1.3	0.5	0.5	4.6	96.8	242.8	279.1	222.0	365.3	91.4	13.5	1320.8				
1978-1979	2.0	0.0	14.7	40.9	69.1	157.2	77.2	243.6	227.8	15.2	0.0	850.0				
1979-1980	10.2	1.3	0.0	29.0	226.8	180.1	48.5	193.5	243.1	57.4	0.0	995.7				
1980-1981	1.1	4.0	11.4	51.3	18.5	309.4	196.4	298.3	119.1	25.2	2.1	1036.8				
1981-1982	0.6	0.0	0.5	72.1	42.6	207.4	143.7	257.9	51.7	66.9	12.5	857.2				
1982-1983	9.4	2.7	0.0	38.2	49.1	193.1	141.1	260.0	199.7	29.9	0.3	927.1				
1983-1984	18.5	0.0	0.0	31.9	30.6	244.4	106.2	321.4	242.3	17.7	16.8	1050.4				
1984-1985	1.2	0.0	23.2	1.1	66.5	382.5	230.4	362.5	230.4	42.8	1.7	1344.9				
1985/86	0.3	8.7	2.1	16.6	132.0	251.1	489.9	268.5	196.5	36.8	0.0	1404.2				
1986/87	2.9	0.0	1.0	107.7	53.8	196.9	231.0	231.0	56.1	17.8	0.8	899.8				
1987/88	0.0	0.0	0.0	20.8	48.0	181.4	234.9	307.8	121.0	171.9	42.5	1.1	1129.4			
1988/89	1.3	0.5	0.0	69.3	38.6	191.4	397.2	248.5	249.7	24.4	3.5	0.9	1225.3			
1989/90	1.1	3.3	0.0	0.4	41.2	338.1	331.5	92.1	73.4	98.2	28.2	0.6	1008.1			
1990/91	0.0	6.2	2.1	0.4	82.4	142.7	244.5	341.2	164.5	43.4	1.3	1.8	1030.5			
1991/92	3.2	0.0	1.1	11.4	109.4	181.9	143.0	19.8	84.7	12.0	0.0	12.8	579.3			
1992/93	1.9	0.2	0.0	0.0	25.6	176.4	211.7	318.0	154.9	79.4	0.0	9.6	977.7			
1993/94	0.0	0.0	0.3	10.5	46.7	172.7	196.4	58.3	46.9	3.8	1.4	1.5	538.5			
1994/95	0.0	0.0	0.0	24.6	3.2	81.1	323.0	113.1	12.9	29.2	5.7	2.4	595.2			
1995/96	0.2	4.5	0.0	0.0	19.5	241.9	190.2	240.8	236.8	23.4	7.4	1.0	965.7			

b) Monthly Rainfall Totals for Chiradzulu, Chancellor Collage(Zomba) and Chingele during last decade

RAINFALL SUMMARY 1993/94~1998/99

Station: Chiradzulu

(Unit : mm/day)

93/94	0.0	0.0	0.0	46.2	127.7	57.5	390.6	104.4	55.8	15.7	0.0	0.0	797.9
94/95	0.0	0.0	0.0	26.5	17.9	130.6	215.9	256.3	160.0	14.4	0.0	0.0	821.6
95/96	0.0	0.0	0.0	0.0	131.0	308.0	334.9	349.9	205.5	10.0	0.0	0.0	1339.3
96/97	0.0	0.0	0.0	0.0	42.3	409.3	446.3	339.4	60.7	0.0	0.0	0.0	1298.0
97/98	0.0	0.0	0.0	47.2	93.5	272.6	360.3	188.6	108.5	19.5	0.0	0.0	1090.2
98/99	0.0	0.0	0.0	35.3	64.6	309.1	532.7	261.4	187.3	96.8	0.0	0.0	1487.2
Mean	0.0	0.0	0.0	25.9	79.5	247.9	380.1	250.0	129.6	26.1	0.0	0.0	1139.0

RAINFALL SUMMARY 1993/94~1998/99

RAINFALL SUMMARY 1993/94

Station: Chiradzulu

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1							13.4	6.3				
2												
3							17.5		16.7			
4							81.3	8.5				
5					6.4		15.8					
6						6.5		11.4				
7					2.2			51.5				
8				33.7	0.6	8.2						
9												
10								26.7				
11												
12					4.4	4.5						
13						1.1						
14					101.3							
15					1.1				7.0			
16					1.5							
17												
18												
19						7.5						
20					4.1							
21						9.3	15.5					
22						3.2						
23							53.3					
24							60.0					
25					6.1	0.4	38.3		17.5	15.0		
26							14.5			0.7		
27												
28				12.5			21.0					
29						16.8			14.6			
30							53.7					
31							6.3					
Total	0.0	0.0	0.0	46.2	127.7	57.5	390.6	104.4	55.8	15.7	0.0	0.0

Total 797.9

RAINFALL SUMMARY 1994/95

Station: Chiradzulu

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1						0.5	44.0					
2						50.9	0.2					
3							10.5	16.7		5.7		
4							16.0					
5										7.2		
6						4.1						
7								21.2				
8								108.6				
9							1.2					
10										1.3		
11						8.5	15.4					
12						12.2	22.2			0.2		
13							9.5					
14												
15							2.1					
16							2.9					
17							23.1					
18							8.4	27.2				
19						43.6	8.3					
20							7.6	41.3				
21							12.6	36.0	24.3			
22							0.5		16.5			
23								5.3	5.3			
24												
25							4.3		113.9			
26							24.8					
27												
28					16.2		2.3					
29					1.7							
30												
31				26.5		10.8						
Total	0.0	0.0	0.0	26.5	17.9	130.6	215.9	256.3	160.0	14.4	0.0	0.0

Total 821.6

RAINFALL SUMMARY 1995/96

Station: Chiradzulu

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1												
2							28.0		10.8			
3												
4							0.4					
5									36.6	0.4		
6								106.5	10.5			
7							1.6	3.4	5.5			
8									5.7			
9							2.5		40.0			
10						30.5			35.0	5.7		
11						45.5		0.2	1.0			
12						79.0			3.9			
13								7.2	13.5			
14									7.5			
15									6.9			
16							24.2		7.0			
17							45.6	10.2	6.6			
18							0.8	0.1				
19									12.0			
20					4.5		2.5			1.4		
21							2.5	47.5	3.0	2.5		
22							20.7					
23						40.0	23.5					
24						10.5	3.6					
25						12.0	126.5	2.4				
26						40.5		43.0				
27					126.5		12.0	6.0				
28								3.4				
29						50.0	9.0	120.0				
30							4.0					
31							27.5					
Total	0.0	0.0	0.0	0.0	131.0	308.0	334.9	349.9	205.5	10.0	0.0	0.0

Total 1339.3

RAINFALL SUMMARY 1996/97

Station: Chiradzulu

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1							3.4					
2							28.6	9.2				
3								5.1	12.5			
4						41.5	15.6					
5						8.5	35.2					
6								40.5				
7							5.9	11.0				
8							22.7	40.1				
9								8.2	4.4			
10								34.2				
11						49.0	19.5	10.1				
12						4.5	2.8	7.7	19.6			
13							4.3	24.0	3.5			
14					8.0	22.5	16.2	6.8	10.5			
15							6.6	0.5	2.1			
16							24.1	27.5	2.8			
17							6.3	22.0				
18						6.5	37.5	2.6				
19						54.8	26.6	2.2				
20						40.0						
21												
22						85.0	36.8					
23						49.0	7.7		5.3			
24					3.0	11.0	75.0	3.7				
25					11.5		16.2					
26					9.0							
27					4.0	5.7	32.7	7.4				
28					6.8		4.5	76.6				
29						20.7						
30						10.6	18.1					
31												
Total	0.0	0.0	0.0	0.0	42.3	409.3	446.3	339.4	60.7	0.0	0.0	0.0

Total 1298.0

RAINFALL SUMMARY 1997/98

Station: Chiradzulu

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1								19.9	31.1			
2							6.5	75.0		8.5		
3								3.0				
4												
5							32.5					
6							6.5			9.5		
7												
8						54.0						
9				4.9		59.5			22.3			
10						13.5						
11						4.7	12.5					
12							11.4					
13				1.0			11.5					
14						2.5	40.7		20.0			
15							32.5		14.1			
16							6.0			1.5		
17							4.0					
18							26.6	55.0				
19					2.0	10.2	4.2		12.5			
20						30.5						
21				14.0		0.8	9.2					
22				20.9	25.8	15.5	1.2	16.0				
23						7.5	25.5					
24				6.4	47.7	17.0						
25					6.0		47.5	19.2				
26							34.5	0.5				
27							18.0					
28					12.0		9.5					
29							20.0		8.5			
30						38.4						
31						18.5						
Total	0.0	0.0	0.0	47.2	93.5	272.6	360.3	188.6	108.5	19.5	0.0	0.0

Total 1090.2

RAINFALL SUMMARY 1998/99

Station: Chiradzulu

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1								12.5		1.6		
2										4.5		
3							9.6			5.2		
4						60.8	15.6			4.9		
5							6.8					
6							12.4					
7							19.6			5.9		
8						14.3	95.5		28.0	7.5		
9						10.5	1.5	26.0		2.3		
10						44.3	20.5		8.0	35.7		
11						65.5	2.9			4.2		
12					4.0	19.5			18.9	2.5		
13						2.0	14.9	51.0		6.9		
14							2.5		12.0			
15									7.5			
16							10.5					
17							114.4					
18						26.3	7.5					
19				4.8		0.6	14.0	116.5				
20								10.2	1.4			
21												
22					5.1	12.5			34.2			
23					2.5			4.5	23.9			
24					2.9	6.2	5.5					
25						20.0	7.0	13.4	1.6			
26					2.6		93.5		5.0			
27					10.5	8.5	4.5	21.0	8.2			
28						2.3	2.5	6.3	3.4	2.5		
29					37.0	4.5	7.5		3.6	5.6		
30				30.5					5.7	7.5		
31						11.3	64.0		25.9			
Total	0.0	0.0	0.0	35.3	64.6	309.1	532.7	261.4	187.3	96.8	0.0	0.0

Total 1487.2

RAINFALL SUMMARY 1987/88~1998/99

Station: Chancellor Collage, Zomba

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	Jne	Total
88/89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89/90	1.2	17.9	1.7	24.1	143.6	305.0	304.2	146.1	138.4	58.4	23.1	1.7	1165.4
90/91	7.0	27.3	12.9	7.5	26.9	116.7	312.1	330.2	312.3	11.4	18.0	2.2	1184.5
91/92	7.7	2.0	1.9	25.8	113.2	445.0	206.9	86.2	237.8	13.3	6.4	10.5	1156.7
92/93	1.9	1.5	0.0	2.9	40.1	168.1	389.9	423.2	178.9	88.6	17.2	13.5	1325.8
93/94	2.7	4.1	1.2	6.5	133.5	146.2	240.9	75.4	138.7	5.9	0.0	7.3	762.4
94/95	3.4	0.0	1.7	55.4	51.8	166.9	290.8	195.4	88.1	16.5	5.8	8.6	884.4
95/96	2.4	7.5	0.0	0.0	42.9	370.5	263.8	397.4	283.1	104.8	113.0	6.0	1591.4
96/97	2.0	1.2	0.0	0.5	32.3	426.7	438.4	275.6	169.5	213.9	0.0	0.0	1560.1
97/98	11.2	0.7	20.7	75.4	106.7	0.0	384.0	102.5	0.0	36.0	0.0	0.0	737.2
98/99	4.2	2.5	0.0	6.1	31.3	235.7	426.6	192.4	340.3	59.9	0.0	4.0	1303.0
Mean	4.4	6.5	4.0	20.4	72.2	238.1	325.8	222.4	188.7	60.9	18.4	5.4	1167.1

RAINFALL SUMMARY 1989/90

Station: Chancellor Collage, Zomba

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1							8.9	4.5		0.3	4.1	
2					1.5	1.9	4.1	43.3		0.8	10.2	
3						1.7	4.2	0.4				0.1
4	0.1						47.0	17.4				
5		1.0					32.5	5.7		2.3	1.3	
6						9.4	10.6	1.2		35.3	1.5	
7		2.9						7.7				
8	0.7	13.7				30.8	6.3	3.0				
9							1.2					
10	0.4					1.8						
11		0.2		0.3	2.0	107.5		5.9				
12					10.2	0.6	16.7	0.4				
13					17.5	1.1	3.3	1.4				0.9
14					3.5	1.2	5.5					
15						15.2	21.7	5.0			0.3	
16					0.7	26.5	35.8	38.0	15.1	0.4		
17					0.3	2.7	33.4	3.8	2.2		0.5	
18						1.0	39.0					
19					20.2		19.9					0.3
20					30.9	5.6	5.1	2.2		0.2		
21					0.1				1.0			
22								1.7	0.1		3.5	
23		0.1								0.5		
24					1.6	0.4				16.1	1.7	
25			1.7	4.6	0.4	22.2	5.2		9.1	0.9		0.4
26				19.2		44.6		4.5				
27						5.0						
28					42.9	21.3			86.1	1.6		
29					5.6	0.1	0.2		24.1			
30					6.2	4.1	0.5		0.7			
31						0.3	3.1					
Total	1.2	17.9	1.7	24.1	143.6	305.0	304.2	146.1	138.4	58.4	23.1	1.7

Total 1165.4

RAINFALL SUMMARY 1990/91

Station: Chancellor Collage, Zomba

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1			6.1				4.9	6.8				
2							6.7		0.3			
3							49.1					1.8
4							19.6	61.5				0.4
5							28.1	0.5	5.8			
6							6.8	82.7	8.6	3.1	0.2	
7					0.3		6.9		2.7	2.5		
8					2.9	0.2	2.3	10.0	143.2			
9						0.3	6.7	18.2	29.8			
10						46.7	21.4	41.6				
11								23.0	0.4			
12		25.9			0.4	5.6	44.7	9.9	18.9	3.0		
13		1.4				5.2	0.7	4.5	7.4			
14						0.2		3.3	4.9	1.7		
15	2.2					2.8		1.3	17.7			
16							47.8	1.0				
17							6.3	37.7				
18							2.7					
19			2.6			23.8	3.0	0.4			0.5	
20			4.2			5.1	1.9		12.7	0.5	13.3	
21	0.2							1.4	0.8	0.2	3.8	
22					5.2		3.8	1.3	0.3		0.2	
23	4.6				7.3				3.4			
24						1.3			27.5	0.4		
25				7.5	2.1		7.7	5.8	11.7			
26						8.9		15.9	2.0			
27					0.1	3.5		3.4	8.5			
28							0.9		4.7			
29							28.7		1.0			
30					8.6	5.6	11.4					
31						7.5						
Total	7.0	27.3	12.9	7.5	26.9	116.7	312.1	330.2	312.3	11.4	18.0	2.2

Total 1184.5

RAINFALL SUMMARY 1991/92

Station: Chancellor Collage, Zomba

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1						7.6	49.6		4.2		2.9	
2							2.3		1.9			
3							0.4	6.6				
4						2.7			10.2			
5							3.1					
6						1.9						
7										3.5		2.2
8							28.9			1.1		
9					0.1	9.9						0.9
10				5.3	0.8	76.7	1.0					0.3
11				5.0	21.7	18.7			29.3			
12		2.0			0.7	1.6	8.7					
13				6.2		10.0	7.5	8.9	0.6			
14	0.1					6.9	1.8					
15				0.2	0.7	141.6			15.9			
16				0.6	17.1				8.5			
17						30.3	4.1		7.0		3.5	
18	1.8					134.5						
19							2.2			0.6		1.8
20							2.1	15.0				
21				8.5	69.4				1.7	2.9		
22					2.7		33.5			2.1		
23									119.5	0.8		
24							43.5	4.2	1.6	1.8		
25	2.6						14.9		0.4	0.1		
26						2.6	0.9	0.9	12.1			
27							0.5	1.8	24.9			4.5
28	0.5						1.5	29.8				0.8
29	2.7		1.9				0.4	19.0				
30										0.4		
31												
Total	7.7	2.0	1.9	25.8	113.2	445.0	206.9	86.2	237.8	13.3	6.4	10.5

Total 1156.7

RAINFALL SUMMARY 1992/93

Station: Chancellor Collage, Zomba

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1		0.5					7.8	12.5			6.4	
2						11.8	14.9	47.6				
3							0.7		0.9		0.1	
4	0.2						10.6	0.5		0.4	3.1	1.3
5					3.8		41.0	2.3	49.4	2.7	7.5	1.9
6							12.1					
7								23.6	43.7			
8							12.5	17.6	28.4			
9							1.6	0.7	6.4			
10						1.9	3.5	0.3		18.0		
11		0.8					1.0	7.9	0.4	27.0		
12		0.2				0.2	45.6	1.0				
13	1.2						48.2	29.5				
14				2.9		9.7	4.7	28.3		28.1		
15						18.5	0.5	0.2		0.2		
16							3.0	10.5	11.4			
17					1.7	1.8	3.9	68.2	0.3			
18					12.0	3.2		22.3				
19					0.3	9.7		10.7	1.2	1.5		
20					5.9	7.4		65.3	9.0			
21						0.4	15.8	0.3				
22						10.3		36.2			0.1	
23					16.4	8.2	98.6	12.1				
24							1.4	0.6	26.4			
25						57.1	15.1	18.4	1.1			3.0
26						23.2	0.7	6.6		10.6		6.5
27						4.7	21.0		0.3			0.8
28							1.8					
29												
30							23.6			0.1		
31	0.5						0.3					
Total	1.9	1.5	0.0	2.9	40.1	168.1	389.9	423.2	178.9	88.6	17.2	13.5

Total 1325.8

RAINFALL SUMMARY 1993/94

Station: Chancellor Collage, Zomba

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1							0.7					0.3
2			0.5				5.2		3.3			
3	0.4		0.7				1.6		0.4			0.1
4				0.6	28.9	0.7	19.4		1.8			
5	0.7						29.4	1.1	2.3			
6					11.8		17.0	2.4				
7					12.9			9.4				
8				1.3				46.7				
9							7.8	4.8				
10				4.1			0.6	5.3				
11							6.2		5.9			
12					20.5	13.0			27.5			6.9
13					27.2	0.2		0.1	21.8			
14					1.5		4.9	3.7	38.4			
15					1.1				10.6			
16									0.7			
17						0.2						
18							9.9			4.1		
19					10.5	19.9				0.6		
20					11.5	60.8	1.2					
21						10.3	0.4	1.9				
22	1.1					10.2						
23		0.7				17.5	20.5					
24					7.1		37.1		0.1	1.1		
25		0.5		0.2		8.8	15.5		8.6	0.1		
26		0.2				1.1	2.7		2.3			
27						1.4						
28				0.2		2.1	17.1		15.0			
29		2.7		0.1			5.2					
30					0.5		5.0					
31	0.5						33.5					
Total	2.7	4.1	1.2	6.5	133.5	146.2	240.9	75.4	138.7	5.9	0.0	7.3

Total 762.4

RAINFALL SUMMARY 1994/95

Station: Chancellor Collage, Zomba

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1										1.8		
2						29.5		36.5				
3						31.7	120.0	34.2				6.7
4							24.5	7.4				
5							5.6		2.4			
6						54.4	5.1					
7						1.0						
8			1.1			2.3		15.4		9.6		
9							38.4	0.1		5.0		
10			0.6			9.9	1.8	2.2				
11						27.0	7.7		0.8	0.1	0.1	
12						0.6	13.6					
13							6.8					
14				3.6								
15				10.4			7.2		0.2			
16							1.8	18.0				
17							0.6	37.4				
18							11.3					
19						10.5		15.7				
20							20.8	2.1				
21							2.1					
22				1.1			0.9		40.9			
23								0.2	5.3			
24					1.4						0.1	
25							1.3		34.0		4.0	1.9
26					0.3		0.8					
27							7.5	0.8				
28	3.4						11.2	25.4			1.3	
29					50.1		0.6				0.3	
30							1.2					
31				40.3					4.5			
Total	3.4	0.0	1.7	55.4	51.8	166.9	290.8	195.4	88.1	16.5	5.8	8.6

Total 884.4

RAINFALL SUMMARY 1995/96

Station: Chancellor Collage, Zomba

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1							3.6	1.1	24.7			
2						23.3	3.6	3.4				
3						4.9		8.7	1.5	1.2		
4								8.6	1.8	3.5		
5									22.5	6.0		0.8
6							15.8	1.0	19.6			
7		2.3				6.8		38.3	7.0	0.1	2.8	
8		4.4				4.6	4.0	1.3	28.1		6.8	
9						155.0		45.1	32.1		0.5	
10						9.2	8.5		27.3	9.4		
11						23.5	14.5	3.8	47.2	0.9		
12						9.9		15.9				
13							13.8		8.2			
14						3.1	5.2		17.6			
15	2.4					1.9	4.3		25.8		94.6	
16					0.6		0.6		8.8		0.1	
17		0.4			4.5	2.2	47.0	52.1	1.0			
18						4.5			0.2			
19		0.4			11.4	4.5	0.8	1.8	8.2		5.5	
20							0.2	26.1		40.0	1.9	
21						0.8	4.6	34.0		12.8		0.5
22						9.4			0.4	28.1		
23						98.4	2.6	43.0				4.7
24						3.0	68.5	13.3				
25							26.8	26.0	0.2			
26					7.0	4.6		18.5			0.3	
27					19.4		15.8	37.5			0.5	
28						0.9	0.5	3.1				
29							5.2	14.8	0.4			
30							5.3		0.5	2.8		
31							12.6					
Total	2.4	7.5	0.0	0.0	42.9	370.5	263.8	397.4	283.1	104.8	113.0	6.0

Total 1591.4

RAINFALL SUMMARY 1996/97

Station: Chancellor Collage, Zomba

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1						2.9	3.6	0.4	5.0			
2								8.0	4.9	25.3		
3							19.6	67.0	0.4	5.1		
4							15.0	5.0	21.8	2.7		
5						13.0	0.9			1.4		
6						5.0	30.0	15.0		57.7		
7						4.3	7.1	25.0		9.1		
8							14.8	12.0		32.3		
9								4.0		72.4		
10						0.3	1.4	22.2		7.9		
11						14.2		1.6				
12						46.0	21.1	7.0	2.6			
13					3.1	14.9	1.7	5.0	1.5			
14						31.1	97.5		37.5			
15					0.1	13.1	14.6	8.0	17.2			
16				0.5	0.8	1.6	3.0	1.0	3.9			
17							46.0	15.0	4.3			
18							1.5	64.0				
19							19.5					
20	0.8					104.0	8.0	1.3				
21						39.3	3.5					
22	1.2	1.2					13.0					
23					0.1	30.3	5.0	1.9				
24						2.7	22.9	0.6	65.4			
25							20.6					
26							14.0					
27									1.2			
28					28.2	38.2	21.0	11.6	2.3			
29						11.4	15.0		1.5			
30							3.8					
31						54.4	14.3					
Total	2.0	1.2	0.0	0.5	32.3	426.7	438.4	275.6	169.5	213.9	0.0	0.0

Total 1560.1

RAINFALL SUMMARY 1997/98

Station: Chancellor Collage, Zomba

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1							9.0	10.6				
2							6.3	69.3				
3								1.0		1.3		
4							2.7					
5	0.6				22.6							
6							13.8			13.2		
7	1.5						21.9			0.5		
8							13.5			6.3		
9	0.2	0.7		10.1								
10				0.3								
11	1.0						13.7			12.4		
12	2.0						2.4					
13							39.4					
14			17.0	2.3			5.1					
15	1.7						19.3					
16							6.0					
17	4.2		2.6		9.7					1.5		
18			1.1				4.2					
19					3.1		31.1					
20					5.4		0.9					
21							2.3	6.4				
22				37.1			5.8	0.5				
23				25.6			13.6					
24					25.0		11.1					
25					3.5		0.7	11.0				
26					15.4		44.4	3.7				
27					1.0		9.7					
28					13.7		30.9					
29					5.0		23.6			0.8		
30					2.3		52.6					
31												
Total	11.2	0.7	20.7	75.4	106.7	0.0	384.0	102.5	0.0	36.0	0.0	0.0

Total 737.2

RAINFALL SUMMARY 1998/99

Station: Chancellor Collage, Zomba

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1		0.5						4.5		14.9		
2		2.0						2.3		6.0		
3						84.0	34.0					
4							55.7			5.2		
5						0.8	3.7					
6							1.3	5.8	38.5	5.0		
7							30.2	3.0	3.0	4.8		
8					4.0	0.7	33.0	19.0	17.0			
9					0.7		0.6	17.2	24.4	1.6		
10						21.4	7.1		5.1			
11					9.5	21.5	7.0		29.8	8.5		
12						15.2	2.2			3.3		
13							26.4	2.4				
14						1.0	31.3	11.1				
15							5.8					0.9
16							25.3					
17						3.5	5.6	21.1				
18				4.6			4.9	5.8				
19								29.5				
20				1.5				0.5				
21									137.6			
22					14.5	4.4		3.1	11.2			
23						3.2	7.7	20.0				
24					1.8		15.0	5.2	30.1			
25						1.0	17.5	12.9				
26					0.8		2.1		6.0			
27							28.2	2.3	7.3	10.6		2.0
28							5.5	26.7	2.2			
29						79.0	37.5		0.4			
30	3.1						22.8		27.7			1.1
31	1.1						16.2					
Total	4.2	2.5	0.0	6.1	31.3	235.7	426.6	192.4	340.3	59.9	0.0	4.0

Total 1303.0

RAINFALL SUMMARY 1987/88~1998/99

Station: Chingele

(Unit : mm/day)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	
88/89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89/90	0.0	0.0	0.0	6.0	27.2	129.3	357.6	57.4	63.7	7.9	0.0	649.1
90/91	0.0	0.0	0.0	0.0	16.2	116.3	271.2	101.0	223.0	3.0	0.0	730.7
91/92	0.0	0.0	0.0	9.4	162.0	146.0	98.7	24.7	93.0	28.0	0.0	561.8
92/93	0.0	0.0	0.0	0.0	0.0	0.0	203.9	218.9	91.6	38.5	0.0	552.9
93/94	0.0	0.0	0.0	12.0	139.3	138.7	162.8	58.6	0.0	0.0	0.0	511.4
94/95	0.0	0.0	0.0	10.5	16.3	109.3	207.3	0.0	70.3	18.8	0.0	432.5
95/96	0.0	0.0	0.0	0.0	23.4	316.2	63.5	342.9	201.5	45.4	0.0	992.9
96/97	0.0	0.0	0.0	0.0	53.0	242.3	314.3	444.6	79.0	142.6	0.0	1275.8
97/98	6.2	0.0	6.5	57.4	76.9	299.6	278.6	449.7	79.0	194.9	0.0	1448.8
98/99	0.0	0.0	0.0	0.1	7.9	0.0	0.0	185.7	166.5	82.6	0.0	442.8
Mean	0.7	0.0	0.7	10.6	57.1	166.4	217.5	188.6	100.1	53.2	0.0	795.1