Awatere Dashwood Weather Station - Daily Summary at 0900 hours

Date	Month	Year	Total Rain (mm)	Growing Degree Days>10	Max Air Temp	Min Air Temp	Min Grass Temp	Soil Temp 10cm 9am	Soil Temp 30cm 9am	Solar Energy mj/m2	Penman ET mm	RH Daily Mean	Max Wind Speed km/hr	Avg Wind Speed km/hr	Daily Wind Run km	Soil Moisture 0-200mm %	Soil Moisture 200-400mm %
1	1	2002	0	12.6	28.3	16.9	14.9	20.6	19.1	24.2	7.4	53.3	53.8	20.5	491.3	17.5	19.2
2	1	2002	0	11.1	23.5	18.7	16.1	20.8	19.7	12.5	4.6	60.3	49.6	22.4	538.4	17.1	18.7
3	1	2002	2.2	11.4	25.3	17.4	15.0	20.6	19.2	26.6	6.4	69.8	50.9	20.7	496.4	16.9	18.5
4	1	2002	0.4	9.9	23.1	16.7	15.6	20.0	19.7	25.7	5.7	60.8	60.4	26.8	644.2	16.6	18.3
5	1	2002	0	7.2	23.5	10.8	9.2	18.7	19.0	21.2	3.5	52.6	57.8	23.1	553.8	16.4	18.3
6	1	2002	0.2	1.8	19.5	4.1	5.2	17.0	18.8	17.1	3.0	77.3	45.8	11.2	268.8	16.2	18.4
7	1	2002	0	3.9	18.9	8.9	9.6	17.8	18.4	18.7	3.4	72.5	43.5	13.4	320.6	16.1	18.2
8	1	2002	1.6	5.7	20.9	10.5	11.4	18.4	18.6	18.0	3.6	73.5	28.2	9.4	224.6	16.0	18.1
9	1	2002	11	4.5	16.9	12.1	12.9	18.1	18.8	6.7	0.7	70.8	25.1	8.5	205.0	15.9	18.0
10	1	2002	0.2	6.0	20.9	11.2	11.6	17.7	18.0	15.1	2.4	93.6	21.8	7.0	169.1	16.5	18.0
11	1	2002	0	6.2	19.7	12.7	12.6	18.2	18.1	21.5	2.9	81.3	40.0	18.6	447.4	16.7	18.1
12	1	2002	10.8	6.2	20.3	12.0	12.4	18.7	18.6	8.5	1.5	79.4	46.4	19.8	475.0	16.7	18.2
13	1	2002	0	7.1	20.8	13.4	13.2	18.0	17.9	15.8	2.4	87.6	50.4	17.8	427.9	17.4	18.3
14	1	2002	24.8	6.8	22.3	11.2	11.4	18.4	18.2	11.5	2.0	82.4	34.8	10.7	258.0	18.1	18.6
15	1	2002	7	7.9	21.9	13.9	14.3	18.2	18.3	14.4	2.2	89.0	29.2	7.5	179.5	20.9	20.9
16	1	2002	0	8.0	26.0	10.0	10.4	17.9	18.0	29.4	6.9	87.0	24.5	7.5	181.1	27.0	30.2
17	1	2002	0	10.2	25.2	15.3	12.4	18.9	18.8	26.0	6.7	56.2	45.8	19.6	470.9	28.6	29.3
18	1	2002	11.8	10.0	24.3	15.6	13.5	19.4	19.0	15.3	2.9	57.2	50.3	17.9	429.9	27.7	28.1
19	1	2002	1.4	5.0	17.0	13.0	13.6	18.7	19.0	12.6	2.3	82.8	28.4	12.2	291.8	28.5	28.5
20	1	2002	0.2	5.1	19.7	10.5	9.9	17.3	18.2	24.5	3.2	76.1	44.4	19.1	459.3	29.9	29.6
21	1	2002	0	3.0	21.1	4.9	5.6	16.7	18.0	30.4	4.0	76.3	56.8	21.7	520.2	27.7	29.1
22	1	2002	0	5.3	22.3	8.3	9.4	17.8	18.3	26.5	3.8	77.1	24.9	8.1	195.3	27.7	28.5
23	1	2002	0	7.6	25.4	9.8	10.8	18.7	18.7	28.0	5.9	79.7	22.7	7.8	186.4	28.3	27.9
24	1	2002	0	11.2	27.3	15.2	12.6	19.5	19.3	25.6	5.8	62.4	34.5	14.3	343.6	27.4	27.1
25	1	2002	0	7.6	20.9	14.3	14.3	20.3	19.8	16.6	3.0	72.1	36.8	15.5	372.6	26.4	26.2
26	1	2002	0	5.2	20.9	9.4	10.2	18.9	19.4	22.2	3.4	78.2	31.2	11.6	278.8	25.6	25.6
27	1	2002	0	8.1	27.4	8.8	9.6	18.5	19.0	22.5	5.6	80.4	26.1	7.7	183.8	24.9	25.1
28	1	2002	0	9.4	24.4	14.4	14.7	20.0	19.6	22.5	3.7	74.2	33.7	9.0	216.0	24.7	24.5
29	1	2002	0	7.3	24.3	10.2	11.3	19.4	19.6	31.1	5.7	80.2	38.5	11.5	275.5	23.1	23.8
30	1	2002	0	9.1	25.7	12.6	13.1	20.7	19.9	25.8	4.8	69.6	31.6	8.9	213.7	22.4	23.4
31	1	2002	0	8.6	26.2	11.0	11.6	20.3	20.1	26.3	6.3	78.4	29.1	8.9	213.0	21.5	22.8
Average Monthly					22.7	12.1	11.9	18.8	18.9	20.7	4.1	74.6		14.2	339.7	21.8	22.8
Total Monthly			71.6	228.5						642.8	125.9				10531.7		
Maximum Monthly					28.3								60.4			29.9	30.2
Minimum Monthly						4.1	5.2									15.9	18.0
Avg Monthly Temp			17.4														

Awatere Dashwood Weather Station - Daily Summary at 0900 hours

Date	Month	Year	Total Rain (mm)	Growing Degree Days>10	Max Air Temp	Min Air Temp	Min Grass Temp	Soil Temp 10cm 9am	Soil Temp 30cm 9am	Solar Energy mj/m2	Penman ET mm	RH Daily Mean	Max Wind Speed km/hr	Avg Wind Speed km/hr	Daily Wind Run km	Soil Moisture 0-200mm %	Soil Moisture 200-400mm %
1	2	2002	0.0	4.9	18.1	11.6	11.2	19.6	20.3	16.3	3.0	63.9	59.6	20.1	482.1	20.9	22.4
2	2	2002	0.0	0.9	17.9	3.9	3.2	16.7	19.0	26.5	3.8	68.7	67.4	27.5	659.2	20.5	22.1
3	2	2002	0.0	4.4	22.6	6.2	5.4	17.1	18.7	29.7	5.5	69.9	63.9	24.0	575.9	20.3	21.9
4	2	2002	2.8	9.2	24.5	14.0	9.2	19.7	19.5	14.1	4.1	62.1	32.2	12.2	292.2	20.0	21.7
5	2	2002	6.6	5.7	17.3	14.1	15.0	19.7	19.6	8.4	1.8	71.7	51.9	17.7	424.0	19.7	21.5
6	2	2002	0.0	2.7	20.6	4.9	5.1	15.2	17.9	30.2	5.7	80.5	44.2	13.4	322.1	21.0	22.1
7	2	2002	0.0	0.0	16.9	2.7	3.4	15.5	17.8	15.3	2.8	63.2	56.9	14.7	353.8	21.2	22.2
8	2	2002	0.0	4.3	18.2	10.4	9.8	15.9	17.4	10.6	2.8	70.9	58.4	24.1	577.9	20.8	22.0
9	2	2002	0.0	3.4	20.3	6.6	5.6	15.4	16.7	26.2	4.5	70.3	28.8	12.7	304.2	20.8	21.8
10	2	2002	16.8	5.9	24.2	7.7	6.7	17.4	17.8	19.0	4.2	72.2	23.0	7.6	183.5	20.5	21.6
11	2	2002	0.6	10.5	24.8	16.2	14.8	18.2	18.5	23.3	3.7	73.1	32.7	12.1	291.4	20.6	22.3
12	2	2002	0.0	11.0	25.1	16.8	12.9	19.2	18.7	23.0	3.7	71.2	40.0	18.4	441.5	25.8	30.4
13	2	2002	0	4.7	16.5	12.9	12.3	18.2	19.2	22.4	2.4	77.9	56.1	26.1	625.5	25.0	28.3
14	2	2002	0	3.3	16.7	9.9	9.0	16.4	17.9	22.4	2.7	73.1	67.9	39.2	939.9	24.3	27.3
15	2	2002	0.6	2.4	17.1	7.7	5.6	16.3	17.7	24.8	2.4	74.7	63.9	31.1	746.6	23.3	26.4
16	2	2002	0	3.9	17.2	10.6	9.2	16.9	17.8	13.8	2.3	79.8	67.4	28.1	674.4	22.6	25.6
17	2	2002	0	2.9	19.5	6.2	4.6	16.3	17.3	20.3	3.1	78.0	38.9	14.3	342.7	22.2	25.2
18	2	2002	0	2.8	21.7	3.9	3.5	16.6	17.7	23.4	3.4	80.4	25.2	8.0	192.4	21.7	25.0
19	2	2002	5.8	6.2	24.5	7.9	7.6	17.9	18.2	19.8	3.5	80.3	29.9	9.6	229.3	21.1	24.1
20	2	2002	0	3.1	15.6	10.5	10.6	17.4	18.4	10.8	1.9	76.3	45.4	15.5	370.8	20.8	23.7
21	2	2002	0	1.1	19.7	2.6	1.5	14.3	16.8	21.4	3.9	79.7	41.2	15.8	378.7	20.7	23.5
22	2	2002	0	3.9	22.5	5.4	5.3	15.7	16.7	14.2	4.2	64.9	31.1	12.8	306.7	20.5	23.2
23	2	2002	0	9.6	24.0	15.1	13.1	17.2	17.1	13.2	5.0	63.1	56.6	18.9	454.8	20.1	22.8
24	2	2002	0	10.1	24.7	15.5	11.4	17.0	17.4	23.0	5.0	51.4	64.5	24.0	576.4	19.7	22.5
25	2	2002	0	3.8	21.7	5.8	4.7	16.5	17.7	23.0	4.6	73.5	65.9	13.8	331.3	19.4	22.1
26	2	2002	0	4.2	20.6	7.9	7.0	17.7	18.0	19.9	3.9	72.7	32.4	12.3	295.5	18.9	21.7
27	2	2002	0	6.3	25.1	7.5	6.6	17.8	18.3	23.2	6.6	72.3	37.2	13.9	334.5	18.4	21.3
28	2	2002	0	9.1	22.9	15.4	10.7	18.6	18.6	12.3	3.7	55.6	56.6	22.2	532.3	17.9	20.7
Average Monthly					20.7	9.3	8.0	17.2	18.1	19.7	3.7	71.1		18.2	437.1	21.0	23.4
Total Monthly			33.2	140.5						550.6	100.2				12239.1		
Maximum Monthly					25.1								67.9			25.8	30.4
Minimum Monthly						2.6	1.5									17.9	20.7
Avg Monthly Temp			15.0														

Awatere Dashwood Weather Station - Daily Summary at 0900 hours

Date	Month	Year	Total Rain (mm)	Growing Degree Days>10	Max Air Temp	Min Air Temp	Min Grass Temp	Soil Temp 10cm 9am	Soil Temp 30cm 9am	Solar Energy mj/m2	Penman ET mm	RH Daily Mean	Max Wind Speed km/hr	Avg Wind Speed km/hr	Daily Wind Run km	Soil Moisture 0-200mm %	Soil Moisture 200-400mm %
1	3	2002	1.4	5.2	22.0	8.4	6.4	17.6	18.1	14.4	2.9	72.1	60.0	15.8	378.8	17.5	20.3
2	3	2002	0	10.1	25.9	14.3	11.7	17.7	18.1	23.9	8.2	76.1	48.5	14.6	351.1	17.2	20.1
3	3	2002	0	10.0	25.1	14.9	10.2	18.0	18.3	23.8	8.3	43.0	59.7	19.8	476.3	16.9	19.8
4	3	2002	0.8	10.4	26.6	14.3	10.9	18.2	18.5	22.0	5.3	40.5	64.6	28.5	684.7	16.5	19.4
5	3	2002	0	2.6	18.1	7.1	5.6	17.6	18.7	11.8	2.8	66.6	69.2	16.8	402.4	16.1	19.0
6	3	2002	0	2.5	19.0	6.0	4.2	16.6	17.9	16.2	2.7	70.1	39.4	12.8	306.9	15.9	18.8
7	3	2002	0	3.1	23.4	2.9	2.7	15.9	17.5	22.5	5.6	80.3	24.2	7.7	184.7	15.6	18.7
8	3	2002	0	10.9	26.7	15.2	11.0	18.0	17.9	22.9	7.2	57.0	50.7	18.1	435.1	15.5	18.5
9	3	2002	0	10.2	25.9	14.5	9.0	18.8	18.6	14.0	4.7	55.8	47.9	19.7	474.0	15.3	18.3
10	3	2002	0.6	3.2	18.4	8.0	7.0	17.6	18.4	8.2	1.7	74.5	30.2	8.5	204.3	15.1	18.2
11	3	2002	2	3.5	15.6	11.4	11.1	17.4	17.9	9.0	1.1	85.4	39.9	14.6	350.3	14.9	18.0
12	3	2002	0	4.0	19.6	8.4	6.9	15.7	17.2	19.4	4.2	85.4	30.9	10.2	244.7	14.8	18.0
13	3	2002	0	4.9	25.1	4.6	4.2	16.2	17.2	15.7	5.1	68.6	34.8	10.1	243.3	14.8	18.0
14	3	2002	0	5.8	18.1	13.5	11.3	17.9	17.7	6.9	1.7	66.1	49.7	18.5	443.9	14.7	17.9
15	3	2002	0	6.7	24.0	9.4	8.1	16.7	17.3	20.9	6.4	81.5	38.0	11.7	281.2	14.6	17.8
16	3	2002	0	8.6	24.6	12.6	7.4	17.0	17.6	16.4	6.5	42.6	61.1	22.2	533.6	14.5	17.7
17	3	2002	0	8.6	23.4	13.9	10.9	17.8	17.9	14.6	5.3	52.7	64.9	21.5	516.5	14.4	17.6
18	3	2002	0.6	3.9	17.6	10.3	8.9	17.1	17.8	8.2	2.8	59.7	50.3	16.9	405.8	14.3	17.5
19	3	2002	10.6	2.8	21.8	3.8	3.4	14.6	16.4	8.5	3.9	70.4	58.2	13.8	330.7	14.1	17.4
20	3	2002	0	10.3	27.2	13.5	10.1	16.3	16.3	14.2	4.4	66.8	72.9	25.9	621.9	14.5	19.4
21	3	2002	0.2	10.4	25.5	15.3	13.4	18.4	17.2	18.7	5.8	70.7	62.9	16.8	404.0	16.7	25.0
22	3	2002	0	10.0	23.6	16.4	11.1	17.0	17.8	17.9	5.5	58.5	72.1	30.3	727.7	16.5	22.5
23	3	2002	0	2.5	20.9	4.1	3.0	15.1	17.2	19.3	3.9	61.1	60.8	11.3	271.6	16.1	21.4
24	3	2002	0	3.0	22.1	3.9	3.5	15.0	16.8	18.5	4.0	72.3	27.4	8.8	212.1	15.8	20.6
25	3	2002	0	3.9	19.9	7.9	7.0	16.2	16.9	13.5	2.7	71.7	31.3	10.0	239.3	15.5	20.2
26	3	2002	0	3.6	16.4	10.7	9.1	16.3	16.9	7.5	1.8	78.0	59.1	16.4	394.5	15.3	19.6
27	3	2002	0	3.5	23.5	3.4	2.9	13.7	15.8	18.1	5.0	85.2	20.7	7.4	177.8	15.0	19.1
28	3	2002	0	10.7	26.7	14.7	10.3	16.0	16.3	15.8	7.9	56.6	53.5	22.0	528.9	14.8	18.7
29	3	2002	0	11.6	26.5	16.7	14.4	18.1	17.0	18.0	7.7	49.5	63.5	27.5	659.7	14.6	18.2
30	3	2002	0	11.7	25.8	17.6	13.8	18.8	17.6	17.3	6.1	56.0	87.7	25.9	621.6	14.4	17.9
31	3	2002	0	4.7	19.7	9.8	6.1	16.4	17.6	17.0	3.9	47.6	60.1	15.3	367.0	14.1	17.6
Average Monthly					22.5	10.6	8.3	16.9	17.5	16.0	4.7	65.0		16.8	402.4	15.3	19.1
Total Monthly			16.2	202.9						494.9	145.0				12474.0		
Maximum Monthly					27.2								87.7			17.5	25.0
Minimum Monthly						2.9	2.7									14.1	17.4
Avg Monthly Temp			16.5														

Awatere Dashwood Weather Station - Daily Summary at 0900 hours																	
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1	4	2002	0.0	0.0	16.6	-0.4	-0.8	14.2	16.7	12.5	3.9	67.3	52.5	12.6	302.1	13.8	17.3
2	4	2002	0.0	0.2	16.5	3.8	2.2	13.0	15.6	13.5	4.0	50.5	57.0	20.8	498.3	13.6	17.1
3	4	2002	0.0	0.0	18.0	-1.4	-2.2	11.4	14.8	16.3	3.9	60.1	44.5	15.9	382.1	13.5	17.0
4	4	2002	0.0	1.9	20.2	3.6	3.0	13.3	14.9	16.2	4.1	57.0	33.7	9.9	236.9	13.4	16.9
5	4	2002	0.0	7.8	22.0	13.7	9.5	15.2	15.5	12.6	3.8	58.4	63.2	19.3	463.8	13.4	16.8
6	4	2002	8.6	3.0	15.1	10.9	11.3	15.6	15.9	3.4	1.3	71.6	66.9	18.5	443.3	13.3	16.8
7	4	2002	0.4	3.3	20.1	6.6	5.2	12.7	14.5	7.8	1.5	78.0	67.5	19.9	476.7	15.2	18.7
8	4	2002	0.0	0.0	16.8	1.4	1.1	10.4	13.6	8.6	2.6	84.5	63.2	13.5	324.0	15.2	18.7
9	4	2002	0.0	0.6	16.6	4.5	4.1	11.4	13.3	5.2	1.4	71.1	29.3	9.4	226.2	15.1	18.4
10	4	2002	0.0	1.1	17.9	4.3	4.2	11.9	13.4	13.1	2.0	83.6	29.6	7.2	172.5	15.0	18.2
11	4	2002	0.0	0.3	18.4	2.3	2.4	11.3	13.5	9.1	1.8	84.5	24.0	7.4	176.7	14.9	18.0
12	4	2002	0.0	4.9	19.1	10.8	11.2	13.6	13.8	9.0	2.0	78.8	22.4	6.1	145.3	14.8	17.9
13	4	2002	0.0	2.0	19.3	4.6	4.4	13.1	13.9	14.7	3.3	83.2	19.7	5.1	122.8	14.7	17.8
14	4	2002	0.0	6.8	22.1	11.4	7.5	13.4	14.2	13.5	4.2	65.6	39.9	13.8	330.5	14.5	17.7
15	4	2002	0.0	0.0	16.1	4.0	2.6	12.8	14.2	7.2	1.7	69.2	45.4	13.9	333.9	14.3	17.4
16	4	2002	0.0	2.2	17.9	6.6	5.1	13.0	14.0	12.7	2.0	80.5	39.9	10.9	261.7	14.1	17.3
17	4	2002	0.0	0.0	18.2	0.8	1.3	11.3	13.7	12.1	2.1	83.5	22.6	6.8	162.8	13.9	17.2
18	4	2002	0.0	2.6	22.3	2.8	1.8	12.0	13.7	12.7	3.3	82.6	25.1	7.0	168.0	13.8	17.0
19	4	2002	0.0	0.0	15.2	3.9	3.8	12.0	13.7	3.7	0.8	79.3	36.8	11.1	266.0	13.6	16.9
20	4	2002	0.0	3.3	16.8	9.7	10.5	13.3	13.6	9.1	1.5	90.7	28.3	6.0	144.4	13.6	16.8
21	4	2002	0.2	2.1	21.6	2.6	2.0	11.3	13.3	9.6	3.5	86.7	27.7	8.7	208.3	13.5	16.8
22	4	2002	0.0	2.3	17.0	7.6	6.2	13.0	13.5	4.9	1.1	65.3	40.3	10.4	250.7	13.4	16.7
23	4	2002	0.8	3.2	16.0	10.4	10.5	13.6	13.7	6.1	1.7	86.3	31.8	9.7	233.1	13.4	16.8
24	4	2002	0.0	3.8	19.6	8.0	6.5	13.0	13.6	8.4	2.7	74.6	21.6	9.6	231.1	13.3	16.7
25	4	2002	0.0	7.0	20.0	14.1	11.7	15.1	14.1	4.4	1.8	74.2	43.2	15.3	366.5	13.3	16.7
26	4	2002	0.0	4.3	22.7	6.0	5.7	13.0	14.1	7.2	2.5	85.6	37.7	9.0	215.2	13.3	16.7
27	4	2002	0.2	8.2	24.0	12.4	11.1	15.1	14.6	10.7	2.4	76.0	33.8	14.1	339.1	13.2	16.7
28	4	2002	2.0	4.7	18.0	11.4	9.0	14.9	14.8	4.4	1.3	82.5	28.0	8.4	202.2	13.2	16.6
29	4	2002	0.2	1.1	15.3	6.9	5.5	12.8	14.4	5.6	2.4	81.0	26.8	10.4	248.4	13.2	16.7
30	4	2002	0.0	0.0	15.8	-2.4	-4.9	8.7	12.8	10.7	3.3	69.8	46.1	14.1	338.0	13.1	16.6
Average Monthly					18.5	6.0	5.0	12.9	14.2	9.5	2.5	75.4		11.5	275.7	13.9	17.2
Total Monthly			12.4	76.7						285.0	73.7				8270.4		
Maximum Monthly					24.0								67.5			15.2	18.7
Minimum Monthly						-2.4	-4.9									13.1	16.6
Avg Monthly Temp			12.3														

Awatere Dashwood Weather Station - Daily Summary at 0900 hours

Date	Month	Year	Total Rain (mm)	Growing Degree Days>10	Max Air Temp	Min Air Temp	Min Grass Temp	Soil Temp 10cm 9am	Soil Temp 30cm 9am	Solar Energy mj/m2	Penman ET mm	RH Daily Mean	Max Wind Speed km/hr	Avg Wind Speed km/hr	Daily Wind Run km	Soil Moisture 0-200mm %	Soil Moisture 200-400mm %
1	5	2002	0	2.2	17.1	7.2	4.5	11.7	12.5	4.4	2.1	67.2	71.9	20.2	485.4	13.0	16.4
2	5	2002	0	0.0	17.8	0.5	-2.7	10.1	12.0	4.4	3.6	59.2	66.2	24.8	595.2	12.9	16.4
3	5	2002	0	4.1	22.0	6.1	3.8	11.2	12.0	8.8	5.1	57.4	54.6	19.9	477.1	12.9	16.4
4	5	2002	0	4.9	22.8	7.1	3.4	12.9	12.5	4.3	4.1	56.1	62.1	24.1	578.8	12.9	16.4
5	5	2002	0	1.5	16.5	6.6	4.6	12.1	13.0	6.2	2.2	75.5	53.4	13.8	330.3	12.9	16.4
6	5	2002	0	5.3	22.0	8.7	6.8	11.7	12.7	10.1	5.0	49.2	68.1	29.8	714.4	12.8	16.3
7	5	2002	0	7.0	21.8	12.2	11.7	13.5	13.1	8.0	2.6	63.5	53.1	19.4	465.2	12.8	16.3
8	5	2002	0	0.0	18.1	1.9	-3.9	9.9	12.7	9.6	2.6	72.5	27.0	8.6	206.1	12.7	16.2
9	5	2002	0	1.3	18.8	3.8	-1.1	10.9	12.2	9.7	2.7	70.6	36.4	9.5	227.5	12.7	16.2
10	5	2002	0	3.1	21.9	4.3	0.9	11.0	12.3	9.1	3.8	66.7	38.2	14.5	349.0	12.7	16.2
11	5	2002	0	6.7	21.0	12.4	10.0	12.5	12.8	8.4	3.1	62.5	45.8	13.4	320.4	12.6	16.2
12	5	2002	0	0.5	16.7	4.3	1.8	11.1	12.7	6.2	1.5	80.0	37.3	11.1	267.4	12.6	16.1
13	5	2002	0	1.0	16.7	5.3	1.9	11.6	12.7	7.6	1.7	79.8	19.6	6.3	152.3	24.1	31.9
14	5	2002	0	0.9	18.4	3.3	-1.4	10.4	12.0	7.0	2.4	63.2	34.0	13.0	312.1	45.3	49.1
15	5	2002	0	0.0	13.9	0.7	-2.3	10.1	11.9	5.3	1.1	84.4	29.3	10.7	255.6	44.1	50.1
16	5	2002	0	0.0	15.3	4.0	0.1	10.8	11.6	9.9	1.6	81.7	25.0	8.0	191.0	37.0	44.8
17	5	2002	0.2	0.2	14.8	5.7	1.8	10.7	11.6	3.8	1.2	81.5	28.9	8.7	208.4	34.6	40.4
18	5	2002	0	0.0	12.3	7.0	5.4	10.9	11.6	2.9	1.1	80.3	19.5	10.0	241.1	33.4	38.1
19	5	2002	0.2	0.0	14.9	2.0	-1.6	9.3	11.3	5.3	1.6	78.8	25.7	10.4	250.5	32.8	36.6
20	5	2002	0	2.3	18.6	5.9	3.7	10.6	11.2	7.4	2.2	72.8	40.6	15.9	382.4	32.3	35.5
21	5	2002	9.2	4.4	17.7	11.1	5.2	11.5	11.6	3.3	1.4	82.0	39.5	14.1	338.5	32.4	35.5
22	5	2002	5	5.7	18.7	12.7	10.8	12.6	12.1	5.9	1.9	78.2	39.8	14.8	354.8	36.0	42.9
23	5	2002	4.6	3.6	16.0	11.2	8.1	11.8	12.2	4.3	1.1	82.4	34.4	10.8	258.4	39.1	44.0
24	5	2002	0	0.0	11.1	5.9	3.2	11.2	12.3	6.4	2.1	63.4	38.2	14.6	349.8	39.7	44.1
25	5	2002	0	0.0	15.2	0.2	-6.5	8.1	10.9	8.6	2.6	64.4	58.3	17.7	423.8	35.7	39.6
26	5	2002	0	0.0	13.7	-2.6	-6.6	7.8	10.4	8.6	2.6	68.4	65.7	14.8	355.2	34.6	37.6
27	5	2002	0	0.0	14.6	-1.9	-6.6	7.1	9.7	8.6	3.2	62.2	90.3	28.1	675.3	34.0	36.4
28	5	2002	0	0.0	12.4	7.0	3.1	7.4	9.4	8.5	2.6	44.2	73.7	26.6	637.3	33.6	35.6
29	5	2002	0	0.0	14.8	-2.2	-7.9	6.1	9.0	8.6	2.5	61.0	31.0	10.5	252.3	33.2	34.8
30	5	2002	0	0.0	13.5	-1.4	-7.6	5.7	8.6	8.1	1.9	67.9	25.2	10.6	253.2	32.9	34.3
31	5	2002	0	0.0	13.0	-0.6	-5.2	5.9	8.3	7.7	1.5	73.4	32.2	9.0	215.8	32.6	33.9
Average Monthly					16.8	4.8	1.2	10.3	11.6	7.0	2.4	69.4		15.0	358.9	26.5	30.3
Total Monthly			19.2	54.7						217.1	75.0				11124.5		
Maximum Monthly					22.8								90.3			45.3	50.1
Minimum Monthly						-2.6	-7.9									12.6	16.1
Avg Monthly Temp			10.8														

Awatere Dashwood Weather Station - Daily Summary at 0900 hours

Date	Month	Year	Total Rain (mm)	Growing Degree Days>10	Max Air Temp	Min Air Temp	Min Grass Temp	Soil Temp 10cm 9am	Soil Temp 30cm 9am	Solar Energy mj/m2	Penman ET mm	RH Daily Mean	Max Wind Speed km/hr	Avg Wind Speed km/hr	Daily Wind Run km	Soil Moisture 0-200mm %	Soil Moisture 200-400mm %
1	6	2002	0.0	0.0	13.5	-1.2	-5.8	5.6	8.2	8.1	1.9	68.7	25.4	10.6	253.7	32.4	33.6
2	6	2002	0.0	0.0	15.3	0.4	-4.9	5.5	7.9	6.3	1.9	72.8	38.3	10.0	239.6	32.2	33.4
3	6	2002	0.0	0.7	19.3	2.1	-2.0	6.7	8.1	7.8	2.6	62.6	50.5	13.0	311.7	31.7	33.1
4	6	2002	0.0	0.0	15.5	0.7	-4.3	6.6	8.4	7.5	2.2	82.5	22.5	8.2	196.0	31.2	32.8
5	6	2002	0.0	0.0	15.9	0.7	-4.2	7.1	8.4	2.5	2.5	52.2	88.4	28.0	672.0	31.7	32.5
6	6	2002	0.0	0.0	13.8	-2.1	-6.4	6.5	8.5	5.7	1.7	74.7	33.1	8.8	212.0	31.5	32.3
7	6	2002	0.0	0.0	12.8	-2.5	-9.2	4.9	8.0	7.6	1.7	72.6	21.7	8.8	211.5	31.4	32.0
8	6	2002	0.0	0.0	17.1	-1.4	-5.4	5.0	7.6	5.9	1.8	71.8	40.1	6.8	162.1	31.1	31.8
9	6	2002	0.0	1.4	18.7	4.1	0.0	8.6	8.0	4.8	1.9	69.3	45.8	18.1	434.5	30.9	31.6
10	6	2002	0.0	2.9	16.4	9.4	4.9	9.5	9.3	2.1	1.3	69.8	35.1	7.8	186.3	30.5	31.3
11	6	2002	0.0	0.0	18.0	-0.2	-4.2	8.5	9.0	7.5	3.4	50.4	96.7	25.6	615.6	30.4	31.1
12	6	2002	0.0	3.1	18.8	7.3	2.8	8.4	9.1	7.6	3.8	49.6	74.7	28.5	683.2	30.2	30.5
13	6	2002	0.2	6.0	19.3	12.7	9.2	10.0	9.5	4.8	2.6	61.0	45.0	17.7	425.3	29.8	30.2
14	6	2002	5.0	4.4	15.6	13.2	9.2	10.9	10.1	2.7	1.4	75.4	64.4	20.6	494.3	29.7	30.1
15	6	2002	4.8	0.0	9.8	7.8	3.1	9.6	10.2	2.3	0.5	80.3	47.4	14.3	342.0	30.8	30.7
16	6	2002	0.0	0.0	9.8	2.5	-1.5	7.9	9.5	4.3	0.9	80.3	33.5	8.5	204.3	32.8	32.8
17	6	2002	22.2	0.0	15.4	4.3	1.6	8.1	9.2	2.1	0.7	82.6	34.5	13.0	312.3	34.4	36.0
18	6	2002	1.6	0.0	8.5	5.0	1.6	8.6	9.5	2.9	0.5	89.4	26.3	7.4	178.3	46.0	51.5
19	6	2002	0.2	0.0	12.3	5.1	0.9	8.7	9.4	6.3	1.2	80.5	37.8	9.2	221.6	39.9	48.0
20	6	2002	35.6	0.0	10.5	3.8	1.3	8.1	9.3	2.3	0.8	77.2	33.6	10.5	253.0	37.3	42.5
21	6	2002	1.2	0.0	14.7	5.4	3.9	9.3	9.2	3.9	1.3	85.6	39.8	15.4	369.3	50.2	49.5
22	6	2002	0	0.0	15.1	1.1	-3.1	7.4	9.4	7.4	2.6	66.7	58.2	16.2	389.5	51.0	50.0
23	6	2002	0	0.0	14.9	5.2	-1.9	7.5	8.9	8.7	2.6	54.5	67.1	22.0	526.8	46.3	50.0
24	6	2002	0	0.0	13.3	1.5	-3.7	7.1	8.8	7.4	1.9	63.6	55.4	12.4	298.3	40.6	47.1
25	6	2002	0	0.7	17.8	3.6	-2.5	7.4	8.5	7.2	3.1	49.8	46.4	18.5	444.8	38.2	43.4
26	6	2002	0	3.2	15.8	10.7	4.6	8.7	8.9	2.3	2.7	48.8	57.8	25.2	605.6	36.9	41.3
27	6	2002	5.2	2.2	15.7	8.7	4.4	8.8	9.1	4.6	1.6	71.1	41.5	15.4	369.5	36.0	39.8
28	6	2002	1	1.4	15.2	7.7	3.2	9.2	9.5	5.5	1.4	79.8	43.9	11.9	285.6	40.2	47.1
29	6	2002	29.2	0.0	10.0	7.1	3.0	9.6	9.8	1.1	0.3	92.5	37.4	11.3	271.9	44.6	46.8
30	6	2002	3.6	0.7	14.6	6.7	3.8	9.4	9.7	5.4	1.2	88.8	29.3	7.4	177.8	50.7	48.7
Average Monthly					14.8	4.3	-0.1	8.0	9.0	5.2	1.8	70.8		14.4	344.9	36.4	38.4
Total Monthly			109.8	26.8						154.8	54.1				10348.1		
Maximum Monthly					19.3								96.7			51.0	51.5
Minimum Monthly						-2.5	-9.2									29.7	30.1
Avg Monthly Temp			9.5														

Awatere Dashwood Weather Station - Daily Summary at 0900 hours

Date	Month	Year	Total Rain (mm)	Growing Degree Days>10	Max Air Temp	Min Air Temp	Min Grass Temp	Soil Temp 10cm 9am	Soil Temp 30cm 9am	Solar Energy mj/m2	Penman ET mm	RH Daily Mean	Max Wind Speed km/hr	Avg Wind Speed km/hr	Daily Wind Run km	Soil Moisture 0-200mm %	Soil Moisture 200-400mm %
1	7	2002	3.6	0.3	14.1	6.5	1.9	9.2	9.9	6.9	1.8	70.9	41.1	12.7	305.3	48.2	48.9
2	7	2002	0.0	0.0	11.0	1.7	-2.2	8.0	9.5	7.0	1.2	72.7	36.9	12.5	299.7	48.6	49.3
3	7	2002	0.0	0.0	12.8	-1.1	-5.2	6.2	8.8	7.3	2.1	63.7	34.3	11.1	266.0	48.4	49.2
4	7	2002	0.0	0.0	13.1	4.1	-1.4	6.8	8.3	4.5	1.4	64.9	46.5	19.8	476.3	43.0	45.9
5	7	2002	0.0	0.0	9.8	4.0	-0.6	6.8	8.4	2.8	0.9	75.1	21.6	8.9	212.4	40.4	45.1
6	7	2002	0.0	0.0	12.5	-1.9	-6.5	5.6	8.1	4.9	1.3	78.7	42.2	11.4	273.4	38.9	43.4
7	7	2002	4.8	0.0	10.8	2.6	-1.6	6.9	8.0	2.0	0.7	80.1	31.9	10.1	241.4	43.2	46.2
8	7	2002	0.0	0.0	14.2	2.0	-4.6	5.3	7.8	6.8	1.7	69.2	22.3	8.7	208.3	41.5	45.9
9	7	2002	0.0	0.0	13.0	-1.9	-6.5	4.7	7.4	7.9	1.3	78.2	20.8	8.3	199.2	38.6	42.9
10	7	2002	0.2	0.0	14.1	-2.5	-7.6	4.2	7.1	7.0	1.4	79.9	25.7	7.2	173.7	37.4	41.1
11	7	2002	2.0	0.0	13.0	-0.2	-4.7	4.4	7.0	4.9	1.0	84.1	35.1	9.0	215.6	36.7	40.1
12	7	2002	1.0	0.0	10.5	5.7	2.0	8.2	7.7	4.3	1.1	84.2	54.7	29.6	709.6	37.0	40.9
13	7	2002	0.0	0.0	10.9	5.6	2.9	6.6	8.0	8.7	1.3	68.7	52.5	27.3	654.6	36.9	40.7
14	7	2002	0.0	0.0	11.0	-1.8	-7.1	4.4	7.4	8.1	2.2	59.0	45.2	15.6	374.9	36.3	39.1
15	7	2002	0.0	0.0	11.1	2.4	-1.0	5.4	7.1	4.3	1.2	71.4	52.7	17.2	413.4	35.8	38.3
16	7	2002	0.2	0.0	10.8	1.4	-2.2	5.8	7.3	6.5	1.1	82.3	32.6	11.3	270.8	35.3	37.5
17	7	2002	0.0	0.0	10.1	1.1	-2.8	5.7	7.3	4.2	0.9	82.0	34.3	10.8	259.9	35.2	37.1
18	7	2002	0.0	0.0	12.1	-1.6	-5.4	4.1	6.9	7.7	1.9	65.6	43.8	17.1	409.6	35.0	36.7
19	7	2002	0.2	1.2	18.1	4.2	-0.8	6.0	7.0	7.9	2.8	51.8	47.5	20.0	480.8	34.6	36.3
20	7	2002	0.0	1.3	17.7	4.8	0.1	6.8	7.7	7.5	3.4	49.6	54.8	19.3	462.9	34.2	35.8
21	7	2002	2.8	3.8	16.9	10.8	7.9	8.2	8.0	8.1	2.3	60.2	74.9	23.3	558.7	34.0	35.3
22	7	2002	0.0	0.0	12.0	7.6	3.5	9.2	8.8	3.6	0.5	90.3	28.7	7.7	185.5	33.7	34.9
23	7	2002	0.0	0.0	11.4	0.7	-2.1	7.2	8.8	4.6	0.9	84.9	50.2	16.5	396.0	33.7	34.8
24	7	2002	0.0	0.1	14.7	5.5	3.7	7.8	8.5	4.6	1.1	77.4	28.3	11.5	276.1	33.7	34.7
25	7	2002	0.2	0.5	13.4	7.6	5.3	9.1	9.0	4.3	1.3	79.6	42.8	15.1	362.0	33.6	34.6
26	7	2002	1.4	0.0	10.2	5.6	3.0	8.1	9.0	5.3	1.0	79.8	42.8	22.4	537.1	33.4	34.3
27	7	2002	0.2	0.0	8.7	2.7	-0.8	6.9	8.5	6.8	1.0	79.4	43.3	18.3	439.8	33.4	34.3
28	7	2002	0.4	0.0	10.4	1.1	-2.4	5.9	8.0	8.5	1.2	74.8	35.5	15.2	365.1	33.5	34.2
29	7	2002	0.0	0.0	10.9	3.3	-1.6	6.3	7.9	6.4	1.1	78.7	30.2	13.5	323.9	33.4	34.1
30	7	2002	0.0	0.0	14.3	-0.5	-5.5	5.1	7.7	9.7	2.0	71.2	20.4	8.6	207.4	33.4	34.0
31	7	2002	0.0	0.0	14.2	-3.5	-9.3	4.2	7.4	10.6	1.6	81.3	18.1	7.8	187.1	33.3	33.9
Average Monthly					12.5	2.5	-1.7	6.4	8.0	6.3	1.4	74.0		14.4	346.7	37.2	39.3
Total Monthly			17.0	7.1						193.9	44.8				10746.4		
Maximum Monthly					18.1								74.9			48.6	49.3
Minimum Monthly						-3.5	-9.3									33.3	33.9
Avg Monthly Temp			7.5														

Awatere Dashwood Weather Station - Daily Summary at 0900 hours

Date	Month	Year	Total Rain (mm)	Growing Degree Days>10	Max Air Temp	Min Air Temp	Min Grass Temp	Soil Temp 10cm 9am	Soil Temp 30cm 9am	Solar Energy mj/m2	Penman ET mm	RH Daily Mean	Max Wind Speed km/hr	Avg Wind Speed km/hr	Daily Wind Run km	Soil Moisture 0-200mm %	Soil Moisture 200-400mm %
1	8	2002	0.0	0.0	13.1	1.9	-2.6	5.3	7.4	9.4	1.5	78.4	28.5	11.1	265.5	33.2	33.8
2	8	2002	0.0	0.0	12.4	-2.0	-8.6	4.6	7.4	9.7	1.9	81.8	19.3	7.2	173.8	33.0	33.6
3	8	2002	2.6	0.0	15.0	0.7	-4.9	5.7	7.2	9.6	2.4	63.5	51.4	19.1	458.0	32.8	33.5
4	8	2002	0.0	4.2	18.7	9.7	7.9	8.6	7.9	9.4	2.5	73.4	63.7	19.6	471.4	32.5	33.1
5	8	2002	0.6	0.0	8.8	7.5	5.0	8.8	8.8	4.6	0.7	83.5	38.0	18.7	449.0	32.4	33.0
6	8	2002	5.2	0.0	8.8	4.5	2.9	7.6	8.6	5.2	0.7	85.7	43.0	20.6	495.1	32.3	33.0
7	8	2002	0.0	0.0	12.6	6.0	4.9	8.1	8.6	5.4	0.7	93.8	25.3	10.8	259.6	33.9	34.6
8	8	2002	0.4	0.0	15.3	3.8	-2.2	7.9	8.9	8.0	2.5	71.5	45.1	13.7	329.1	34.2	35.3
9	8	2002	0.0	0.0	12.1	5.9	2.5	8.0	8.8	9.0	1.8	66.2	59.5	20.7	496.1	34.0	34.8
10	8	2002	0.0	0.0	15.1	-3.4	-8.9	5.0	8.2	10.6	2.6	65.6	23.6	10.1	241.6	33.9	34.7
11	8	2002	0.0	0.3	16.8	3.8	-2.0	7.3	8.0	3.5	3.3	52.3	73.7	28.9	693.7	33.6	34.4
12	8	2002	1.2	6.0	20.0	12.1	9.6	9.1	8.6	7.2	3.1	56.5	62.4	27.4	658.6	33.3	34.0
13	8	2002	3.8	1.2	14.3	8.2	6.8	9.6	9.3	4.2	0.8	86.9	38.4	10.3	247.4	33.0	33.7
14	8	2002	0.0	2.1	15.7	8.6	7.9	10.5	9.8	7.6	1.8	75.5	51.8	20.3	486.4	33.1	33.7
15	8	2002	0.0	0.1	14.0	6.2	1.8	9.1	9.8	6.8	1.3	77.1	31.0	12.8	307.3	33.3	33.9
16	8	2002	0.2	0.0	11.6	5.5	0.3	9.2	9.7	5.1	0.9	87.9	24.5	6.6	157.2	33.2	33.7
17	8	2002	0.0	0.0	13.2	-1.0	-5.1	7.0	9.3	9.7	1.7	81.3	35.1	11.1	266.7	33.2	33.7
18	8	2002	2.4	0.0	12.2	-0.2	-6.2	6.8	9.0	12.1	1.9	65.1	69.4	13.2	317.3	33.1	33.6
19	8	2002	0.0	0.0	14.4	-0.6	-6.0	6.1	8.6	13.2	2.8	61.5	29.9	10.3	247.2	33.2	33.5
20	8	2002	0.0	0.0	17.1	0.1	-6.2	6.1	8.3	12.5	2.7	63.1	45.4	11.1	266.0	33.1	33.5
21	8	2002	0.0	0.0	16.0	0.2	-5.5	6.5	8.5	12.9	3.1	66.7	21.3	9.7	233.2	32.9	33.3
22	8	2002	0.0	0.0	14.4	0.3	-7.0	6.0	8.4	12.6	2.1	68.9	26.9	9.6	230.5	32.7	33.1
23	8	2002	0.2	0.0	16.4	-0.4	-5.4	6.1	8.3	12.4	2.8	69.4	38.9	11.7	280.7	32.5	32.9
24	8	2002	4.2	0.8	14.7	6.9	4.8	8.6	8.7	7.0	1.3	74.5	59.8	19.5	468.2	32.1	32.7
25	8	2002	1.0	0.8	14.7	6.8	3.3	9.0	9.2	6.6	1.4	72.7	50.1	13.4	320.6	32.1	32.5
26	8	2002	0.2	0.0	12.3	0.4	-1.1	7.4	9.2	10.3	2.3	62.5	55.9	19.4	466.0	32.2	32.4
27	8	2002	0.0	0.0	11.4	-4.1	-8.3	6.7	8.5	14.1	1.9	65.2	51.9	21.3	511.9	32.2	32.3
28	8	2002	0.0	0.0	12.4	-0.8	-6.0	6.1	8.3	13.9	1.9	74.9	40.5	12.3	294.8	32.0	32.3
29	8	2002	0.0	0.0	12.7	2.0	-1.5	7.2	8.5	13.2	1.8	75.1	23.0	10.2	245.9	31.8	32.0
30	8	2002	0.0	0.0	14.7	1.3	-3.3	7.0	8.6	11.9	1.9	78.4	23.2	8.5	203.5	31.5	31.8
31	8	2002	0.0	0.0	14.7	1.0	-3.3	7.8	9.0	14.2	2.1	78.4	32.5	9.0	216.7	31.2	31.6
Average Monthly					14.0	2.9	-1.2	7.4	8.6	9.4	1.9	72.6		14.5	347.1	32.8	33.4
Total Monthly			22.0	15.6						292.1	60.2				10758.8		
Maximum Monthly					20.0								73.7			34.2	35.3
Minimum Monthly						-4.1	-8.9									31.2	31.6
Avg Monthly Temp			8.5														

Awatere Dashwood Weather Station - Daily Summary at 0900 hours

Date	Month	Year	Total Rain (mm)	Growing Degree Days>10	Max Air Temp	Min Air Temp	Min Grass Temp	Soil Temp 10cm 9am	Soil Temp 30cm 9am	Solar Energy mj/m2	Penman ET mm	RH Daily Mean	Max Wind Speed km/hr	Avg Wind Speed km/hr	Daily Wind Run km	Soil Moisture 0-200mm %	Soil Moisture 200-400mm %
1	9	2002	0.0	0.0	15.7	2.4	-2.9	8.5	9.2	13.5	2.6	67.0	47.4	19.3	462.1	30.4	31.3
2	9	2002	4.8	2.7	16.8	8.7	4.3	9.1	9.5	10.6	1.3	77.1	45.1	12.0	287.5	29.8	31.1
3	9	2002	0.0	0.8	14.8	6.8	3.9	10.3	10.1	9.1	1.8	83.0	34.0	10.4	250.3	29.5	30.9
4	9	2002	0.0	3.3	17.9	8.8	3.7	10.5	10.3	13.5	1.7	68.6	68.5	23.1	554.8	29.3	30.7
5	9	2002	0.0	7.0	21.9	12.0	8.5	10.9	10.9	10.0	3.8	46.5	56.1	20.9	501.5	29.2	29.8
6	9	2002	0.0	0.0	15.6	3.6	1.2	9.8	11.1	14.1	2.7	71.7	34.9	10.4	250.6	29.0	29.3
7	9	2002	3.2	0.0	16.7	2.1	-1.6	9.3	10.9	9.5	2.7	55.9	50.4	20.7	496.0	28.5	29.5
8	9	2002	1.0	4.8	20.2	9.4	8.4	11.1	10.9	12.2	3.4	71.3	64.2	15.8	378.9	28.0	29.6
9	9	2002	0.2	3.1	16.8	9.4	4.8	9.8	11.2	15.0	3.6	51.2	53.0	22.9	550.8	27.7	29.3
10	9	2002	0.0	3.1	17.0	9.2	6.7	10.4	10.9	10.3	2.7	63.5	63.7	23.9	574.6	27.2	28.9
11	9	2002	0.0	3.3	16.7	9.9	5.7	10.3	11.0	12.6	2.5	66.5	36.4	12.0	288.3	26.7	28.6
12	9	2002	0.0	0.0	12.1	2.2	-1.0	9.1	11.1	13.7	2.0	77.7	39.0	14.4	344.7	26.2	28.3
13	9	2002	0.8	0.0	16.5	0.1	-5.1	7.7	10.2	12.7	2.3	70.8	54.9	16.4	394.6	25.7	28.0
14	9	2002	0.0	0.0	12.4	-1.1	-3.8	6.5	9.7	17.6	2.9	63.2	38.3	11.5	275.3	25.3	27.7
15	9	2002	0.0	0.0	16.6	0.0	-4.1	7.8	9.7	17.3	3.1	64.7	37.2	12.0	288.6	24.8	27.4
16	9	2002	0.0	0.0	18.9	0.7	-2.2	9.0	10.1	17.9	3.9	74.2	21.2	8.2	196.8	24.2	27.1
17	9	2002	0.0	3.9	22.3	5.6	2.1	10.6	10.9	16.0	6.1	41.1	67.2	26.7	639.6	23.5	26.7
18	9	2002	0.2	4.1	16.9	11.2	8.2	10.8	11.3	7.4	2.3	66.7	62.0	21.9	525.7	22.7	26.2
19	9	2002	13.0	3.7	16.2	11.3	10.2	11.3	11.4	6.7	2.0	75.8	66.5	25.4	609.3	22.7	26.1
20	9	2002	0.0	2.0	15.3	8.6	5.5	9.9	11.2	18.2	3.2	61.9	54.5	20.1	483.5	26.4	27.0
21	9	2002	0.0	0.0	15.7	0.3	-3.6	8.9	10.8	19.8	3.8	60.3	61.6	15.8	378.7	25.6	26.6
22	9	2002	0.0	3.8	18.4	9.2	6.7	10.1	11.0	18.4	3.8	52.5	71.3	26.3	630.9	25.3	26.4
23	9	2002	0.0	1.1	18.7	3.5	0.9	9.9	11.2	9.8	3.9	53.5	46.3	16.3	390.9	24.4	26.2
24	9	2002	0.0	5.1	20.1	10.1	7.7	10.5	11.1	18.5	5.3	45.8	57.3	24.4	584.8	23.3	25.9
25	9	2002	0.0	0.0	11.9	5.0	2.8	9.6	11.4	19.1	3.1	58.3	53.3	21.4	512.5	22.6	25.6
26	9	2002	0.0	0.0	16.4	0.0	-3.2	9.3	10.8	9.8	3.1	58.9	48.2	21.4	513.7	22.0	25.2
27	9	2002	0.0	4.5	18.9	10.1	7.0	11.0	10.8	19.6	5.1	37.3	65.0	30.4	730.4	21.3	25.6
28	9	2002	0.2	0.1	19.9	0.3	-2.6	10.1	11.0	15.3	4.6	54.7	62.1	15.8	379.3	20.6	26.1
29	9	2002	7.6	3.4	17.8	9.0	5.6	10.8	11.3	14.9	2.4	70.2	54.0	17.5	421.0	20.1	24.2
30	9	2002	0.0	0.0	16.0	2.0	-0.7	10.6	11.4	11.5	1.9	81.5	40.8	10.0	241.1	20.7	24.1
Average Monthly					17.0	5.7	2.4	9.8	10.7	13.8	3.1	63.1		18.2	437.9	25.4	27.7
Total Monthly			31.0	59.6						414.6	93.5				13136.6		
Maximum Monthly					22.3								71.3			30.4	31.3
Minimum Monthly						-1.1	-5.1									20.1	24.1
Avg Monthly Temp			11.4														

Awatere Dashwood Weather Station - Daily Summary at 0900 hours

Date	Month	Year	Total Rain (mm)	Growing Degree Days>10	Max Air Temp	Min Air Temp	Min Grass Temp	Soil Temp 10cm 9am	Soil Temp 30cm 9am	Solar Energy mj/m2	Penman ET mm	RH Daily Mean	Max Wind Speed km/hr	Avg Wind Speed km/hr	Daily Wind Run km	Soil Moisture 0-200mm %	Soil Moisture 200-400mm %
1	10	2002	0.0	0.2	17.2	3.2	0.3	10.6	11.0	20.0	3.1	69.2	29.8	9.9	237.7	20.6	24.2
2	10	2002	0.0	0.6	19.5	1.7	-1.0	11.0	11.6	16.3	4.8	60.5	45.5	14.6	349.8	20.4	24.7
3	10	2002	3.6	4.9	17.9	12.0	10.0	12.7	12.2	16.2	1.9	65.2	66.4	25.0	600.7	20.2	24.3
4	10	2002	0.0	0.0	14.0	2.7	-0.7	8.9	11.3	21.3	2.8	65.7	39.5	16.1	385.3	19.9	24.0
5	10	2002	0.0	0.0	16.7	-1.0	-4.4	9.2	10.9	16.5	2.7	65.4	43.7	15.9	380.7	19.8	23.9
6	10	2002	0.0	0.0	12.7	-0.1	-3.0	10.1	10.9	23.3	2.3	71.5	64.0	23.8	571.3	19.6	23.7
7	10	2002	0.0	0.0	12.0	-1.5	-4.6	9.1	10.7	20.8	2.2	71.6	49.6	18.9	454.5	19.5	23.5
8	10	2002	0.0	0.0	13.1	1.3	-0.9	10.0	10.8	20.8	2.4	76.6	28.7	10.5	251.9	19.4	23.4
9	10	2002	0.0	0.0	20.4	-2.0	-5.5	9.6	10.9	23.1	4.8	65.6	38.6	12.4	296.8	19.1	23.1
10	10	2002	0.0	4.0	20.6	7.4	2.2	11.7	11.7	20.5	5.6	47.9	49.2	19.8	476.4	18.7	22.8
11	10	2002	0.0	2.7	16.1	9.4	3.7	13.7	12.4	9.7	2.0	69.4	34.7	12.5	299.3	18.4	22.5
12	10	2002	0.0	0.9	12.7	9.2	6.7	12.2	12.4	15.1	1.9	70.6	49.5	16.0	384.8	18.1	22.5
13	10	2002	0.4	0.0	11.4	0.8	-1.9	10.7	11.7	10.1	1.6	78.0	52.8	15.2	365.2	17.9	22.3
14	10	2002	0.0	0.0	12.5	-3.6	-6.6	9.1	10.9	19.3	2.7	69.2	53.3	15.8	379.8	17.7	22.1
15	10	2002	0.0	0.0	17.2	-2.2	-6.2	9.4	10.5	23.1	4.1	63.0	42.6	15.6	373.8	17.5	21.9
16	10	2002	0.0	2.5	17.4	7.5	4.1	11.8	11.5	20.5	3.2	66.6	42.6	15.3	368.2	17.2	21.6
17	10	2002	0.0	5.4	21.2	9.6	5.5	13.4	12.2	16.7	4.1	53.3	61.9	24.4	584.8	14.0	18.1
18	10	2002	0.0	6.4	19.7	13.1	10.2	14.5	13.0	21.2	4.5	66.1	73.1	22.5	539.6	11.6	16.0
19	10	2002	0.0	0.1	17.3	2.8	-0.4	13.0	12.8	24.7	4.5	54.4	38.2	14.1	337.4	11.3	15.7
20	10	2002	0.0	4.0	21.6	6.4	3.1	14.3	13.2	21.3	6.0	44.3	70.2	26.2	628.0	11.0	15.4
21	10	2002	0.0	3.7	19.0	8.5	4.3	14.0	13.5	25.0	5.9	46.5	72.0	26.8	643.4	10.7	15.1
22	10	2002	0.0	3.8	19.8	7.7	1.9	14.2	13.5	22.4	4.9	47.6	46.2	17.3	414.3	10.4	14.8
23	10	2002	0.0	0.0	18.7	0.5	-2.9	13.2	12.9	25.4	4.1	65.9	35.6	11.1	267.5	10.2	14.5
24	10	2002	1.4	1.4	20.6	2.3	-1.4	14.0	13.4	21.1	4.3	63.9	54.4	15.5	372.6	10.0	14.3
25	10	2002	2.8	5.3	19.5	11.2	8.5	14.6	14.3	21.4	3.8	71.5	53.9	22.1	531.5	9.9	14.2
26	10	2002	0.0	5.9	20.2	11.6	9.8	14.5	13.9	18.9	4.4	54.5	55.9	21.5	515.2	9.8	14.1
27	10	2002	3.0	4.3	21.2	7.4	3.1	14.9	13.8	18.6	4.8	52.5	49.0	18.3	440.1	9.9	14.2
28	10	2002	12.0	0.3	13.7	7.0	2.8	13.4	13.5	10.6	1.3	73.7	40.8	13.1	314.2	11.0	15.7
29	10	2002	0.8	0.0	15.9	1.2	-1.3	11.5	12.4	21.6	3.2	75.5	32.1	11.9	285.9	13.2	17.8
30	10	2002	0.0	1.4	19.8	3.0	-1.3	12.1	12.5	26.6	5.2	58.3	35.9	12.4	298.5	12.8	17.1
31	10	2002	0.0	3.3	22.5	4.1	0.6	13.6	13.4	22.9	5.4	51.6	63.2	19.6	471.5	12.4	16.7
Average Monthly					17.5	4.5	1.1	12.1	12.2	19.8	3.7	62.9		17.2	413.6	15.2	19.5
Total Monthly			24.0	61.1						615.3	114.5				12820.7		
Maximum Monthly					22.5								73.1			20.6	24.7
Minimum Monthly						-3.6	-6.6									9.8	14.1
Avg Monthly Temp			11.0														

Awatere Dashwood Weather Station - Daily Summary at 0900 hours

Date	Month	Year	Total Rain (mm)	Growing Degree Days>10	Max Air Temp	Min Air Temp	Min Grass Temp	Soil Temp 10cm 9am	Soil Temp 30cm 9am	Solar Energy mj/m2	Penman ET mm	RH Daily Mean	Max Wind Speed km/hr	Avg Wind Speed km/hr	Daily Wind Run km	Soil Moisture 0-200mm %	Soil Moisture 200-400mm %
1	11	2002	0.8	5.8	20.8	10.9	6.9	14.5	14.3	27.3	4.8	55.4	76.3	27.2	653.8	11.9	16.2
2	11	2002	0.0	4.2	17.9	10.6	6.7	15.3	14.3	26.3	3.0	58.0	70.8	29.0	695.6	11.5	15.8
3	11	2002	0.0	0.0	19.4	-2.0	-4.7	13.0	13.4	23.2	4.3	68.3	46.4	13.7	328.0	11.0	15.5
4	11	2002	0.0	4.6	22.3	7.0	2.7	15.2	14.1	22.7	6.3	50.2	68.2	23.0	551.1	10.6	15.2
5	11	2002	0.6	7.7	21.5	13.9	11.1	16.5	14.8	24.9	5.1	57.1	73.0	25.7	617.9	10.2	15.0
6	11	2002	0.0	4.7	19.3	10.2	6.9	14.5	14.6	21.3	5.3	48.0	64.7	28.6	685.6	9.8	14.8
7	11	2002	0.0	5.0	19.9	10.1	6.8	16.0	14.6	21.2	4.4	55.8	41.2	18.0	431.3	9.5	14.5
8	11	2002	0.0	2.4	18.6	6.3	3.4	15.7	15.1	22.7	4.5	67.1	35.8	11.9	285.5	9.3	14.1
9	11	2002	9.2	7.1	21.1	13.1	11.5	16.6	15.9	21.3	4.8	54.7	67.5	24.4	584.6	9.5	14.1
10	11	2002	0.0	8.0	23.5	12.5	9.2	15.2	15.2	29.2	7.0	43.4	76.6	32.9	789.9	10.2	14.5
11	11	2002	6.8	5.2	19.9	10.5	7.5	15.2	15.5	20.5	3.6	59.4	76.6	26.2	629.4	10.1	14.6
12	11	2002	0.0	0.0	14.9	1.4	-1.6	13.1	14.4	21.7	3.0	69.3	54.6	14.6	350.7	10.4	14.8
13	11	2002	0.0	0.0	16.5	0.5	-2.5	12.3	13.5	24.8	3.6	69.4	30.7	9.2	221.1	10.3	14.7
14	11	2002	0.0	3.7	22.0	5.4	1.2	14.8	14.3	25.0	4.1	71.4	42.9	13.9	332.8	10.1	14.5
15	11	2002	1.6	5.3	27.0	3.7	1.3	16.0	15.0	23.1	7.0	61.0	72.6	21.1	506.4	9.8	14.3
16	11	2002	4.2	0.9	12.3	9.5	9.4	14.9	16.3	10.4	1.7	84.8	42.9	16.7	401.2	9.5	14.2
17	11	2002	0	0.0	14.3	4.9	4.6	12.2	14.1	28.9	3.5	62.6	61.7	24.4	585.1	9.5	14.1
18	11	2002	2.4	0.0	16.4	-1.4	-5.4	12.3	13.4	12.7	3.0	63.7	43.6	11.0	262.9	9.5	14.0
19	11	2002	0	1.9	17.3	6.6	4.9	12.4	13.9	12.4	3.5	68.8	59.9	18.4	440.4	9.5	14.0
20	11	2002	0	3.8	20.1	7.6	6.2	13.9	13.8	28.7	3.6	70.1	61.2	20.8	498.9	9.4	13.9
21	11	2002	7.6	4.4	18.9	9.9	9.8	17.3	15.1	21.5	2.7	77.4	33.1	12.0	288.3	9.3	13.9
22	11	2002	0.6	1.2	13.9	8.6	8.4	13.8	16.1	22.9	2.2	79.3	57.5	20.3	486.4	10.8	14.7
23	11	2002	0	0.0	15.2	0.7	-2.2	13.9	14.3	28.9	3.0	77.4	26.8	9.9	237.0	11.0	14.9
24	11	2002	0	0.0	16.0	3.4	0.1	14.6	15.2	15.2	2.8	78.0	36.8	11.4	272.5	10.6	14.7
25	11	2002	0	2.6	19.5	5.7	2.7	15.5	15.0	28.3	4.3	75.8	46.5	13.4	321.0	10.3	14.6
26	11	2002	0	4.6	24.7	4.6	1.6	16.6	15.5	23.4	7.6	53.5	57.5	19.4	465.6	9.9	14.4
27	11	2002	0	11.0	25.8	16.3	15.0	19.1	16.8	14.4	4.5	55.8	43.7	18.6	446.6	9.5	13.8
28	11	2002	1	7.7	19.7	15.7	15.0	19.0	17.4	9.0	1.5	72.3	34.3	10.7	256.0	9.1	13.9
29	11	2002	0	5.1	18.3	11.9	11.9	16.0	16.9	17.1	2.1	88.2	44.9	20.2	484.0	9.0	13.7
30	11	2002	0	4.2	20.8	7.5	5.5	18.0	16.1	26.3	4.2	71.7	32.3	14.0	336.5	8.8	13.5
Average Monthly					19.2	7.5	5.1	15.1	15.0	21.8	4.0	65.6		18.7	448.2	10.0	14.5
Total Monthly			34.8	111.3						655.1	121.0				13445.8		
Maximum Monthly					27.0								76.6			11.9	16.2
Minimum Monthly						-2.0	-5.4									8.8	13.5
Avg Monthly Temp			13.4														

Awatere Dashwood Weather Station - Daily Summary at 0900 hours

Date	Month	Year	Total Rain (mm)	Growing Degree Days>10	Max Air Temp	Min Air Temp	Min Grass Temp	Soil Temp 10cm 9am	Soil Temp 30cm 9am	Solar Energy mj/m2	Penman ET mm	RH Daily Mean	Max Wind Speed km/hr	Avg Wind Speed km/hr	Daily Wind Run km	Soil Moisture 0-200mm %	Soil Moisture 200-400mm %
1	12	2002	1.0	3.8	18.2	9.4	7.5	17.6	17.5	11.3	1.8	83.4	32.7	14.9	358.1	8.7	13.4
2	12	2002	0.2	6.4	19.6	13.2	13.1	17.8	17.1	18.0	2.4	85.7	39.2	16.6	399.6	8.6	13.3
3	12	2002	0.0	6.5	20.7	12.2	11.0	19.0	17.2	16.6	2.5	81.8	23.0	7.4	178.0	8.5	13.2
4	12	2002	0.0	6.5	21.0	12.0	9.6	18.8	17.9	28.1	3.2	88.3	24.7	7.6	183.1	8.4	13.1
5	12	2002	0.0	7.8	23.0	12.7	9.3	20.6	18.6	27.3	5.5	67.3	55.5	18.9	453.6	8.3	12.9
6	12	2002	0.0	9.9	23.1	16.7	14.3	21.8	19.4	13.5	3.9	73.1	39.1	16.5	396.5	8.1	12.8
7	12	2002	41.8	10.4	23.3	17.5	14.3	21.3	18.9	8.0	1.8	74.8	61.2	13.2	317.5	9.2	15.8
8	12	2002	1.8	4.2	17.0	11.5	11.5	15.4	17.8	12.3	1.9	85.3	30.2	7.4	177.8	18.2	34.6
9	12	2002	0.0	5.0	19.6	10.4	9.1	16.7	17.1	21.0	3.4	77.1	24.0	7.9	190.0	19.6	28.6
10	12	2002	0.0	5.0	23.2	6.7	5.0	17.0	17.4	19.9	5.8	58.7	61.8	18.9	454.8	19.4	27.1
11	12	2002	0.0	3.9	21.2	6.6	3.8	16.4	17.3	15.2	5.7	52.9	64.4	21.8	523.6	18.8	26.0
12	12	2002	5.2	7.7	21.5	13.9	12.4	16.6	17.0	26.6	5.4	66.2	50.3	22.4	538.2	17.9	24.9
13	12	2002	0.0	7.5	21.8	13.3	11.0	17.1	17.7	29.7	7.6	52.6	85.3	28.8	690.9	17.2	23.6
14	12	2002	0.0	7.7	20.4	15.0	13.4	17.5	17.7	30.5	7.1	43.0	71.0	35.2	845.4	16.6	22.7
15	12	2002	0.0	5.4	20.8	10.0	5.7	17.4	17.5	32.1	6.3	40.7	55.9	19.9	477.8	15.7	21.6
16	12	2002	0.0	5.8	22.3	9.3	3.7	19.1	18.4	24.9	4.9	56.6	34.9	12.7	305.3	15.0	20.6
17	12	2002	4.8	3.2	16.1	10.2	9.1	19.2	19.1	5.8	0.9	90.9	35.9	12.9	310.2	14.5	20.0
18	12	2002	0.0	3.5	17.2	9.8	9.6	14.9	17.4	10.2	2.2	79.5	30.9	14.0	336.1	14.5	19.7
19	12	2002	0.0	2.7	18.8	6.7	4.9	15.7	16.2	31.2	4.7	77.3	27.5	12.4	298.4	14.2	19.3
20	12	2002	0.0	4.5	20.7	8.2	5.4	17.8	17.6	31.3	4.9	77.3	26.1	8.7	208.5	14.0	18.4
21	12	2002	0.0	5.6	21.0	10.3	8.2	19.7	18.6	30.6	5.0	74.5	38.0	11.3	271.7	13.6	18.2
22	12	2002	0.0	7.6	23.4	11.8	10.4	20.6	19.5	28.7	5.7	66.0	57.2	16.1	387.3	13.2	17.9
23	12	2002	0.0	11.5	27.1	16.0	14.3	20.6	19.9	29.1	6.2	44.9	83.5	34.5	827.0	12.6	17.4
24	12	2002	2.6	9.3	25.3	13.3	13.3	20.1	20.4	10.4	2.0	70.2	49.0	16.1	386.8	12.0	16.7
25	12	2002	0.0	10.2	24.4	16.0	12.4	19.7	20.0	30.1	7.3	59.8	63.4	22.4	537.4	11.6	16.2
26	12	2002	0.0	7.6	19.7	15.6	13.2	19.6	19.6	32.5	6.6	41.5	71.3	30.1	722.3	11.0	15.6
27	12	2002	0.0	0.4	19.1	1.7	-2.8	18.3	19.0	32.2	6.2	48.4	41.9	15.6	374.8	10.5	15.0
28	12	2002	0.0	3.9	21.7	6.1	2.5	19.9	19.3	23.8	4.3	59.2	62.2	20.2	484.0	10.1	14.6
29	12	2002	0.0	4.8	19.4	10.2	9.3	20.4	19.1	31.7	4.5	61.1	25.9	9.2	219.8	9.7	14.2
30	12	2002	0.0	3.4	23.0	3.8	0.9	20.6	19.5	29.5	5.8	67.2	29.5	10.2	244.7	9.4	13.8
31	12	2002	0.0	8.3	27.1	9.5	6.6	21.7	20.1	31.6	6.8	55.8	33.7	15.6	375.5	9.1	13.5
Average Monthly					21.3	11.0	8.8	18.7	18.4	23.3	4.6	65.9		16.8	402.4	12.8	18.5
Total Monthly			57.4	189.9						723.7	142.3				12474.4		
Maximum Monthly					27.1								85.3			19.6	34.6
Minimum Monthly						1.7	-2.8									8.1	12.8
Avg Monthly Temp			16.1														