

Awatere Dashwood Weather Station - Daily Summary at 0900 hours																	
Date	Month	Year	Total Rain (mm)	Growing Degree Days>10	Max Air Temp	Min		Soil Temp 10cm	Soil Temp 30cm	Solar Energy	Penman ET	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 %
						Air Temp	Grass Temp										
1	2	2003	0.0	12.3	27.3	17.2	15.8	22.5	21.0	27.4	5.9	54.5	54.7	26.1	627.0	7.7	12.1
2	2	2003	0.4	11.9	25.4	18.4	17.2	24.0	22.0	12.2	2.2	69.5	32.3	14.7	353.2	7.6	12.0
3	2	2003	0.0	6.0	24.8	7.3	4.6	20.5	20.4	27.2	4.8	71.7	33.8	11.2	267.7	7.5	11.8
4	2	2003	0.0	4.5	18.9	10.0	8.8	20.2	21.2	19.4	3.5	73.5	55.3	21.8	524.3	7.4	11.7
5	2	2003	0.0	5.1	21.5	8.8	5.7	19.8	20.0	27.2	4.3	67.1	28.7	8.4	200.9	7.3	11.6
6	2	2003	0.0	7.7	28.4	7.0	4.3	20.5	20.5	27.8	5.4	58.8	55.6	19.2	459.9	7.3	11.6
7	2	2003	0.0	5.7	21.5	9.9	6.7	21.0	21.3	26.5	4.2	74.8	27.8	9.3	223.7	7.3	11.5
8	2	2003	0.0	7.6	25.4	9.9	7.2	21.4	21.6	25.3	5.4	58.8	53.1	20.8	498.6	7.2	11.5
9	2	2003	0.0	6.9	23.6	10.1	7.2	21.9	21.5	26.3	4.3	64.5	31.8	11.9	286.1	7.2	11.4
10	2	2003	0.0	8.9	24.6	13.1	10.9	22.2	22.0	26.6	4.9	64.2	31.0	14.9	357.0	7.1	11.4
11	2	2003	0.0	13.5	31.3	15.7	13.5	22.7	22.4	25.4	5.1	54.6	48.1	18.8	451.0	7.1	11.3
12	2	2003	0.0	6.8	22.8	10.8	8.7	21.9	22.7	26.0	4.4	66.2	39.9	14.2	340.9	7.0	11.3
13	2	2003	0.0	8.9	27.9	10.0	7.4	22.4	22.3	22.5	5.2	60.3	44.3	17.3	414.4	7.0	11.2
14	2	2003	20.6	12.1	26.4	17.9	15.7	23.2	22.6	12.5	2.1	65.0	59.2	20.8	499.4	8.1	15.6
15	2	2003	0.0	2.3	18.3	6.3	2.0	16.7	19.9	26.0	3.9	67.0	30.4	10.0	239.5	10.2	20.4
16	2	2003	0.0	6.4	26.6	6.2	3.6	16.7	19.4	26.5	5.6	59.4	48.2	17.9	429.0	10.1	18.5
17	2	2003	0.0	8.5	23.7	13.3	10.7	19.0	20.0	25.7	6.0	56.0	54.0	21.6	517.4	9.9	17.3
18	2	2003	0.0	10.6	24.7	16.5	15.3	19.5	20.5	15.9	4.1	48.8	74.6	25.8	618.6	9.7	16.4
19	2	2003	2.4	8.1	21.7	14.6	13.0	18.8	20.3	9.6	2.4	52.1	68.2	28.9	692.8	9.5	15.8
20	2	2003	0.0	5.2	20.0	10.4	8.7	15.2	18.9	26.3	5.3	44.3	60.9	22.5	539.9	9.2	15.2
21	2	2003	3.4	2.2	14.7	9.8	7.8	16.5	18.8	14.6	2.1	65.4	50.0	14.7	353.5	9.0	14.8
22	2	2003	0.0	0.0	16.5	2.2	-0.1	13.1	16.5	21.9	3.4	67.4	26.8	8.6	206.2	8.9	14.7
23	2	2003	0.0	2.9	22.2	3.6	0.6	14.4	16.6	24.8	4.4	61.3	44.9	17.8	427.1	8.8	14.4
24	2	2003	0.0	4.9	19.0	10.8	9.2	17.2	18.0	24.4	3.9	71.0	53.6	20.7	496.0	8.7	14.1
25	2	2003	0.0	2.7	19.6	5.8	2.8	16.0	17.7	24.1	3.8	76.7	26.3	10.9	261.6	8.6	13.7
26	2	2003	0.0	6.7	22.9	10.6	8.9	18.5	18.6	23.1	4.1	73.5	30.6	13.3	319.1	8.4	13.4
27	2	2003	8.6	7.8	20.0	15.5	15.0	20.1	20.0	10.0	1.9	85.9	34.6	15.5	372.5	8.3	13.1
28	2	2003	1.0	8.4	21.5	15.3	15.3	17.8	19.4	7.0	0.8	93.9	31.2	12.5	300.7	9.1	16.2
Average Monthly					22.9	11.0	8.8	19.4	20.2	21.9	4.2	65.2		16.8	402.8	8.3	13.7
Total Monthly			36.4	194.6						612.1	112.6				11277.8		
Maximum Monthly					31.3								74.6			10.2	20.4
Minimum Monthly						2.2	-0.1									7.0	11.2
Avg Monthly Temp			16.9														
Radiation and ET figures in bold substituted from MRC, as Awatere faulty																	

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	2003	0.0	9.7	25.1	14.4	12.2	18.9	18.5	23.5	4.0	82.3	22.2	6.9	166.2	9.5	16.5
2	3	2003	0.4	10.3	26.7	13.8	11.8	19.2	19.7	20.8	5.3	73.6	41.1	12.7	304.0	9.4	15.6
3	3	2003	0.0	10.7	23.7	17.6	16.8	20.1	20.4	20.4	6.0	60.3	57.3	24.9	597.5	9.2	14.9
4	3	2003	0.0	8.1	24.4	11.9	10.1	17.4	19.5	22.6	5.8	49.8	55.0	19.2	460.0	8.9	14.5
5	3	2003	0.0	3.5	20.9	6.2	3.5	17.1	19.1	22.9	4.4	66.2	32.3	12.8	306.5	8.7	13.6
6	3	2003	0.0	4.2	20.5	8.0	5.1	18.2	19.3	22.3	3.3	70.2	44.5	12.5	300.0	8.5	13.5
7	3	2003	0.0	3.1	19.9	6.2	4.6	16.8	19.2	20.0	3.3	77.3	49.5	16.2	388.6	8.3	13.2
8	3	2003	0.0	5.6	20.0	11.3	9.2	18.3	19.2	23.2	3.3	78.8	32.9	10.7	257.2	8.2	12.9
9	3	2003	0.0	3.3	20.1	6.6	3.8	17.0	18.9	21.7	3.4	76.3	45.7	17.1	411.3	8.0	12.6
10	3	2003	1.8	3.4	18.2	8.7	6.6	17.4	18.9	9.2	1.9	79.2	27.2	10.3	246.3	7.9	12.4
11	3	2003	0.0	5.3	18.2	12.4	12.3	17.1	18.8	8.5	1.8	83.4	37.4	16.6	399.4	7.8	12.3
12	3	2003	0.0	5.7	19.0	12.5	11.9	16.6	18.1	16.8	2.8	77.4	33.5	11.7	281.5	7.7	12.1
13	3	2003	0.0	3.3	19.9	6.6	3.6	16.1	17.7	20.4	3.7	75.2	23.3	7.1	171.0	7.6	11.9
14	3	2003	0.0	4.4	21.4	7.4	5.1	17.3	18.3	20.8	2.3	71.0	29.0	9.7	232.0	7.6	11.9
15	3	2003	0.0	4.1	19.9	8.3	6.2	17.4	18.7	15.1	2.5	80.1	38.6	13.7	328.4	7.5	11.8
16	3	2003	0.0	4.2	19.0	9.4	6.4	17.3	18.5	16.0	2.9	76.9	29.2	9.6	229.4	7.4	11.7
17	3	2003	0.0	2.7	18.5	7.0	4.6	16.0	18.0	8.7	2.2	80.1	37.9	15.5	371.4	7.3	11.5
18	3	2003	0.0	1.8	17.9	5.7	2.2	16.0	17.4	20.1	2.9	75.0	25.3	8.2	196.3	7.2	11.4
19	3	2003	0.0	2.2	19.8	4.6	1.7	15.4	17.5	21.1	2.5	73.3	21.6	9.0	215.1	7.2	11.4
20	3	2003	0.0	4.3	23.2	5.3	1.5	16.2	17.6	20.8	4.5	65.0	28.3	8.8	211.0	7.1	11.3
21	3	2003	0.0	5.3	25.2	5.4	2.6	16.4	17.8	20.5	5.4	65.1	28.6	9.4	226.0	7.1	11.2
22	3	2003	0.0	8.6	26.3	11.0	8.1	18.4	18.4	19.7	6.7	51.7	40.1	14.6	349.7	7.1	11.2
23	3	2003	0.0	11.8	27.2	16.5	15.2	19.0	19.0	20.0	7.3	50.9	48.8	24.3	583.6	7.1	11.2
24	3	2003	0.0	6.6	24.9	8.3	4.8	18.1	19.0	19.3	4.0	69.6	29.7	9.7	232.9	7.0	11.1
25	3	2003	0.0	3.6	20.4	6.8	5.2	17.5	19.0	18.1	2.6	84.7	27.0	9.0	216.6	7.0	11.0
26	3	2003	0.0	7.4	25.2	9.5	6.5	18.2	18.8	15.0	4.2	74.3	29.3	8.7	209.6	6.9	11.0
27	3	2003	0.0	6.8	22.0	11.7	8.9	18.5	19.1	15.7	3.2	71.4	23.8	8.7	208.0	6.9	11.0
28	3	2003	11.0	5.4	17.8	13.1	11.1	18.3	19.5	5.0	1.5	84.4	24.7	10.8	259.5	7.0	11.1
29	3	2003	3.2	6.9	18.7	15.0	14.9	17.8	18.7	5.6	0.7	92.6	32.9	11.6	277.9	7.3	12.4
30	3	2003	1.0	5.9	18.8	13.1	11.3	16.6	17.9	13.2	1.7	90.7	16.4	5.4	130.4	7.4	12.2
31	3	2003	12.4	7.6	22.6	12.6	10.9	16.8	17.8	11.8	3.0	77.4	45.8	16.1	387.2	7.5	12.0
Average Monthly																	
Total Monthly																	
Maximum Monthly																	
Minimum Monthly																	
Avg Monthly Temp																	
29.8																	
175.9																	
27.2																	
4.6																	
1.5																	
15.7																	
73.4																	
12.3																	
295.3																	
9154.2																	
9.5																	
16.5																	
6.9																	
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	Soil Temp 30cm	Solar Energy	Penman ET	RH Daily Mean	Max Wind Speed	Avg Wind Speed	Daily Wind Run	Soil Moisture 0-200mm	Soil Moisture 200-400mm
1	4	2003	0.2	1.8	13.7	10.0	9.9	14.6	17.4	8.8	1.7	81.7	27.8	11.4	274.2	11.0	19.9
2	4	2003	0.2	1.2	16.1	6.2	3.1	13.2	16.1	15.4	2.2	78.1	32.9	9.3	223.0	11.0	18.7
3	4	2003	0.0	3.3	21.6	5.0	1.7	12.1	15.4	17.6	4.2	71.1	41.4	15.3	367.6	10.8	17.6
4	4	2003	0.0	7.3	21.8	12.9	9.3	14.1	15.8	16.6	4.4	58.4	48.5	25.1	601.3	10.7	16.8
5	4	2003	5.4	7.2	19.7	14.7	11.2	15.2	16.2	7.9	2.0	75.9	29.9	13.0	312.1	10.5	16.3
6	4	2003	1.2	4.6	16.3	12.9	9.3	15.0	16.4	5.0	1.3	88.9	35.6	13.7	328.2	10.5	16.0
7	4	2003	1.0	2.4	14.9	9.9	7.6	12.5	15.6	10.2	2.6	65.9	56.0	21.4	514.7	10.4	15.7
8	4	2003	0.0	0.9	16.3	5.5	1.5	10.4	14.1	16.4	2.8	63.2	28.6	10.6	255.1	10.3	15.5
9	4	2003	2.0	1.7	18.1	5.3	0.5	10.9	14.1	15.4	2.5	74.4	22.6	9.7	232.6	10.3	15.2
10	4	2003	0.2	1.6	14.4	8.8	6.6	13.4	15.0	7.8	1.2	83.3	31.4	11.5	277.0	10.2	15.1
11	4	2003	0.0	0.0	16.2	3.5	-0.1	10.3	13.8	13.0	2.0	78.4	43.8	12.1	289.8	10.1	14.9
12	4	2003	0.0	0.1	16.3	3.9	1.1	10.4	13.7	7.6	1.6	83.1	28.0	8.0	191.4	10.0	14.8
13	4	2003	0.0	1.3	15.7	6.9	4.7	12.1	13.7	7.6	1.6	80.5	27.6	8.9	213.8	10.0	14.7
14	4	2003	0.0	0.6	18.5	2.7	-0.2	11.1	13.5	14.3	2.8	76.3	25.1	8.7	208.8	9.9	14.5
15	4	2003	0.0	3.4	21.2	5.6	2.1	11.8	13.7	14.6	3.7	68.4	30.4	12.9	309.8	9.8	14.3
16	4	2003	0.0	6.7	21.7	11.6	6.9	13.9	14.4	14.6	3.2	70.0	27.7	10.9	262.8	9.7	13.8
17	4	2003	0.0	2.4	17.8	7.0	3.0	13.0	14.7	6.1	2.5	73.8	54.3	22.4	536.6	9.5	13.9
18	4	2003	0.0	1.2	12.5	9.9	8.1	12.2	14.2	6.4	2.0	64.3	49.9	27.7	664.8	9.2	13.6
19	4	2003	0.0	1.0	14.0	8.1	5.4	11.1	13.5	13.5	2.1	70.4	49.2	23.3	559.7	9.0	13.4
20	4	2003	0.0	1.7	18.9	4.4	1.2	10.3	13.3	13.2	2.8	73.5	32.9	10.3	247.6	8.9	13.1
21	4	2003	0.0	0.0	13.1	1.8	0.1	10.9	13.2	4.2	1.5	80.0	31.4	9.0	216.0	8.7	13.0
22	4	2003	0.0	2.4	16.5	8.3	7.1	12.0	13.2	12.5	2.3	75.3	26.1	7.3	174.8	8.6	12.8
23	4	2003	0.0	0.4	19.0	1.9	-2.0	10.4	13.2	12.1	3.7	69.0	34.7	10.0	240.3	8.5	12.6
24	4	2003	0.2	3.1	19.5	6.8	2.9	13.3	13.6	5.7	2.1	61.5	65.9	25.8	619.3	8.3	12.4
25	4	2003	0.0	0.0	13.4	1.0	-3.9	8.5	12.8	9.7	2.2	69.8	33.8	11.4	274.6	8.1	12.2
26	4	2003	0.0	0.0	19.6	0.4	-3.6	8.2	11.7	12.0	3.0	70.7	48.1	14.2	340.6	8.0	12.1
27	4	2003	0.0	0.0	11.8	2.4	-1.3	9.2	12.1	4.5	0.8	86.3	27.4	11.4	274.4	7.9	12.0
28	4	2003	0.0	0.0	15.9	2.0	-2.2	8.3	11.7	12.0	2.4	76.5	35.6	11.0	263.8	7.8	11.8
29	4	2003	0.0	0.0	16.2	2.3	-1.7	9.0	11.9	12.0	2.6	76.9	32.4	10.5	252.5	7.8	11.7
30	4	2003	0.0	5.0	20.7	9.4	3.0	11.8	12.4	10.9	3.8	59.6	57.6	21.6	518.9	7.7	11.6
Average Monthly																	
Total Monthly																	
Maximum Monthly																	
Minimum Monthly																	
Avg Monthly Temp																	
11.7																	
17.0																	
6.4																	
3.0																	
11.6																	
14.0																	
10.9																	
2.5																	
73.5																	
334.9																	
9.4																	
14.3																	
10.4																	
61.3																	
327.4																	
73.5																	
21.8																	
65.9																	
11.0																	
19.9																	
0.4																	
-3.9																	
7.7																	
11.6																	

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	2003	0.0	3.3	21.0	5.5	0.1	9.2	10.9	6.2	4.1	53.6	68.1	18.3	439.5	11.2	18.6
2	6	2003	0.0	2.6	18.6	6.6	2.5	10.4	10.9	1.5	3.0	47.5	55.8	24.5	587.6	11.2	18.2
3	6	2003	3.8	1.2	14.0	8.3	7.7	10.4	11.2	4.5	0.9	83.0	35.7	8.1	194.7	11.2	17.9
4	6	2003	0.0	4.1	18.7	9.6	9.0	11.2	11.5	7.9	2.0	76.7	39.1	15.2	363.8	11.2	17.7
5	6	2003	3.8	1.6	19.2	4.0	2.5	9.2	11.6	7.9	2.3	74.9	29.9	9.8	234.6	11.1	17.4
6	6	2003	1.8	1.2	16.1	6.3	3.7	9.6	11.1	3.5	1.1	82.2	47.5	12.0	289.0	11.3	17.4
7	6	2003	0.0	4.4	19.8	9.0	7.5	10.2	11.3	8.3	3.1	64.3	49.2	14.7	353.2	11.4	17.4
8	6	2003	0.0	1.2	16.4	6.1	3.5	9.5	11.2	5.4	2.1	56.4	56.1	18.2	436.9	11.4	17.3
9	6	2003	22.0	0.0	12.6	6.3	3.8	9.6	10.9	1.1	1.0	81.4	74.5	29.5	707.6	12.7	20.9
10	6	2003	0.2	1.0	12.8	9.2	7.6	8.6	10.6	6.6	1.7	63.7	66.0	26.9	645.4	16.6	27.7
11	6	2003	0.0	0.0	12.2	-1.0	-4.3	4.6	9.4	8.1	1.6	72.3	42.9	13.7	327.6	16.7	25.5
12	6	2003	0.0	0.0	13.5	1.5	-2.3	4.7	8.6	8.1	1.7	74.4	26.5	11.6	278.8	16.7	24.8
13	6	2003	0.8	0.0	12.4	2.0	-2.3	4.6	8.3	8.2	1.7	74.1	38.3	11.4	273.2	16.7	24.3
14	6	2003	10.8	0.0	14.4	5.5	-0.4	5.9	8.3	7.6	2.1	59.3	58.4	21.1	506.0	16.5	23.9
15	6	2003	2.4	3.1	15.9	10.4	6.2	10.0	9.1	5.8	1.9	75.9	43.7	16.8	402.2	18.1	27.0
16	6	2003	0.0	1.4	13.8	9.1	6.9	8.0	9.7	6.9	2.1	56.7	67.2	23.7	569.8	19.0	26.8
17	6	2003	0.0	0.0	12.2	4.5	1.8	5.1	8.8	8.2	1.9	55.5	39.9	17.6	422.9	19.1	26.1
18	6	2003	0.0	0.0	14.7	1.8	-2.6	3.7	8.0	8.1	2.2	54.9	47.4	18.2	437.9	19.0	25.7
19	6	2003	0.0	1.0	18.5	3.5	-0.5	6.7	7.8	8.2	3.4	46.7	64.9	32.2	771.9	18.7	25.2
20	6	2003	0.0	3.4	16.5	10.2	8.0	7.7	8.6	7.9	2.6	54.4	65.2	25.8	619.1	18.5	24.7
21	6	2003	0.0	0.1	16.1	4.1	-1.8	6.3	9.0	8.2	2.8	53.3	40.7	13.1	314.7	18.1	24.3
22	6	2003	2.4	0.0	16.7	2.2	-3.2	5.3	8.4	7.7	2.4	53.7	40.8	15.8	378.7	17.9	23.9
23	6	2003	0.2	3.5	16.9	10.1	4.8	9.4	8.9	5.9	2.1	71.4	55.3	21.2	509.0	17.6	23.5
24	6	2003	0.0	2.1	14.4	9.8	6.2	7.9	9.5	8.0	2.7	49.5	65.4	25.3	606.3	17.4	23.1
25	6	2003	0.0	0.0	14.4	3.7	-0.7	5.9	9.0	8.0	2.0	60.0	47.4	14.1	339.5	17.1	22.7
26	6	2003	0.0	0.0	10.9	-1.0	-4.8	3.7	8.3	8.0	1.4	74.6	26.2	9.2	222.0	17.0	22.4
27	6	2003	0.0	0.0	11.4	-1.8	-6.2	2.5	7.6	7.4	1.6	65.9	28.7	11.3	270.9	16.9	22.1
28	6	2003	1.8	0.0	13.5	2.0	-0.9	5.0	7.3	3.4	1.2	73.5	36.7	14.2	340.6	16.7	21.8
29	6	2003	7.0	3.1	17.2	9.0	7.2	9.7	8.3	3.3	1.3	81.8	52.0	21.1	506.3	17.3	22.6
30	6	2003	7.6	5.3	17.9	12.8	11.1	10.2	9.7	5.5	1.9	68.6	54.7	20.7	496.5	18.9	24.6
Average Monthly																	
Total Monthly 64.6 43.5 15.4 5.6 2.3 7.5 9.5 6.5 2.1 65.3 17.8 428.2 15.8 22.5																	
Maximum Monthly 21.0 74.5 195.1 62.1 12846.1 19.1 27.7																	
Minimum Monthly -1.8 -6.2 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1 11.1																	
Avg Monthly Temp 10.5																	

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	Soil Temp 30cm	Solar Energy	Penman ET	RH Daily Mean	Max Wind Speed	Avg Wind Speed	Daily Wind Run	Soil Moisture 0-200mm	Soil Moisture 200-400mm
1	8	2003	0.0	0.0	14.0	5.4	3.0	7.5	8.5	6.7	1.2	80.3	45.3	14.8	355.2	18.2	21.5
2	8	2003	0.0	0.0	10.0	6.2	5.4	8.0	8.7	3.4	1.1	80.3	45.8	19.0	456.6	18.0	21.3
3	8	2003	0.0	0.0	15.1	4.5	2.3	6.7	8.6	10.5	1.5	79.8	38.6	12.0	288.1	17.9	21.1
4	8	2003	0.0	0.0	13.3	-0.3	-3.6	5.0	8.3	10.9	1.5	81.4	19.5	7.9	189.6	17.7	20.9
5	8	2003	0.0	0.0	14.4	-2.1	-5.8	4.1	7.8	10.9	1.8	80.0	28.1	7.8	187.8	17.5	20.9
6	8	2003	0.0	0.0	14.1	0.2	-3.3	4.6	7.6	11.0	2.1	74.0	35.8	15.1	362.3	17.4	22.0
7	8	2003	0.0	0.5	15.0	5.9	4.8	7.5	8.1	7.4	1.5	73.1	40.4	15.5	372.6	17.1	22.9
8	8	2003	5.0	0.0	11.6	8.0	7.3	8.9	9.0	4.9	0.6	93.4	13.4	5.2	124.7	16.9	23.2
9	8	2003	0.2	0.0	14.9	2.4	-2.3	6.5	9.0	11.7	2.0	77.3	35.0	11.5	276.6	16.9	20.7
10	8	2003	0.2	0.0	16.1	1.0	-3.4	5.2	8.5	11.4	2.4	71.2	32.5	9.0	216.4	16.8	19.8
11	8	2003	0.0	0.0	10.3	-2.1	-4.9	4.3	8.1	5.2	1.1	82.7	46.7	15.9	381.0	16.7	19.7
12	8	2003	0.8	0.0	10.2	2.1	0.6	7.3	8.2	3.7	0.9	80.4	42.9	21.6	519.3	16.7	19.6
13	8	2003	1.4	0.0	9.4	6.7	4.4	7.4	8.6	7.2	0.8	83.5	39.1	19.5	468.4	16.6	19.6
14	8	2003	0.0	0.0	12.7	-0.1	-2.8	5.3	8.2	11.6	1.7	78.6	35.6	10.6	254.5	16.6	19.5
15	8	2003	0.6	0.2	15.2	5.3	3.5	8.5	8.7	5.4	1.4	74.7	47.9	19.2	461.0	16.7	19.4
16	8	2003	5.0	0.0	13.3	6.1	3.0	6.1	8.7	12.8	3.2	46.3	57.9	27.6	662.5	16.8	19.3
17	8	2003	0.0	0.4	15.2	5.5	-1.0	5.9	8.2	12.4	3.1	51.0	40.9	16.0	383.0	16.8	19.2
18	8	2003	0.0	0.0	14.5	1.0	-4.8	4.7	7.9	13.2	2.9	59.8	25.8	10.9	262.7	16.8	19.2
19	8	2003	0.0	0.0	14.7	0.0	-4.8	5.1	7.8	13.2	2.5	62.9	36.3	10.5	251.3	16.7	19.2
20	8	2003	0.0	0.0	10.9	-1.6	-5.4	4.2	7.7	8.0	1.7	73.7	45.0	14.4	346.6	16.7	19.0
21	8	2003	0.4	0.0	10.5	2.9	2.4	7.2	8.0	3.7	1.5	68.2	46.8	24.2	580.2	16.6	19.0
22	8	2003	6.6	0.0	10.0	8.2	6.2	8.1	8.3	4.2	0.5	85.2	58.9	31.6	759.4	16.6	19.0
23	8	2003	0.0	0.0	9.1	5.1	3.9	6.9	8.6	11.5	1.2	77.9	59.9	34.0	816.2	16.6	18.9
24	8	2003	0.0	0.0	11.8	1.8	-0.6	5.5	8.1	10.6	1.4	78.1	28.6	11.2	267.9	16.6	18.9
25	8	2003	0.0	0.0	15.3	1.8	-2.1	6.5	8.5	13.6	2.1	76.0	27.5	10.9	262.7	16.6	18.8
26	8	2003	0.0	1.3	15.5	7.1	3.7	8.4	9.0	10.8	1.8	73.3	33.2	13.6	325.4	16.6	18.7
27	8	2003	1.2	1.9	13.4	10.4	6.2	9.8	9.8	6.4	1.1	78.3	36.3	15.6	373.5	16.5	18.6
28	8	2003	10.2	0.0	10.5	5.9	4.0	8.9	9.8	4.6	0.6	87.5	27.5	8.5	203.8	17.5	19.4
29	8	2003	0.0	0.0	11.7	-0.5	-3.7	6.0	9.1	14.5	1.7	79.2	47.5	12.8	306.4	20.6	22.9
30	8	2003	0.0	0.0	13.1	-0.6	-4.3	5.2	8.5	14.2	1.7	79.6	34.1	9.5	226.8	21.6	22.8
31	8	2003	0.8	0.0	14.7	1.3	-2.5	6.1	8.6	14.3	2.3	69.9	41.8	16.1	386.8	21.7	23.4
Average Monthly															17.4	20.3	
Total Monthly															11329.2		
Maximum Monthly															59.9	23.4	
Minimum Monthly															16.5	18.6	
Avg Monthly Temp																	

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	2003	10.4	5.1	20.4	9.8	4.2	13.6	14.0	22.8	4.6	53.6	59.3	22.9	550.0	13.8	16.2
2	11	2003	0.2	5.0	18.6	11.4	7.8	13.7	14.2	27.7	4.7	61.3	80.0	31.3	750.4	14.1	16.4
3	11	2003	0.0	3.8	17.8	9.9	7.6	12.7	14.0	28.3	4.7	42.5	57.7	30.9	741.8	14.1	16.0
4	11	2003	0.4	0.0	15.0	3.7	0.0	12.8	13.8	17.2	2.7	64.9	52.8	17.3	415.3	13.8	15.8
5	11	2003	0.0	0.5	19.1	1.8	-0.3	12.4	13.5	28.3	4.5	64.6	36.6	14.1	338.5	13.5	15.5
6	11	2003	0.0	1.9	20.7	3.2	1.5	14.1	14.2	28.0	5.8	61.9	38.3	12.2	292.1	13.1	15.1
7	11	2003	0.0	5.8	20.7	10.8	7.7	15.3	15.1	23.4	5.9	48.7	61.1	27.2	652.9	12.7	14.7
8	11	2003	0.0	4.7	20.4	9.0	4.6	14.9	14.9	27.5	4.4	51.5	46.1	15.1	361.7	12.3	14.3
9	11	2003	0.0	1.7	17.8	5.7	2.5	15.3	15.3	24.6	3.1	81.1	28.3	10.9	262.3	11.9	14.0
10	11	2003	0.0	4.5	21.8	7.2	5.9	15.4	15.6	23.4	4.6	69.1	37.7	16.6	397.7	11.7	13.7
11	11	2003	0.0	5.2	25.5	4.9	3.0	15.4	15.6	22.5	7.1	49.2	68.3	21.1	507.5	11.3	13.4
12	11	2003	0.0	10.3	24.0	16.5	11.6	16.7	16.3	24.6	6.4	51.9	58.8	23.8	570.4	11.0	13.1
13	11	2003	2.6	5.4	20.3	10.5	6.2	16.3	16.6	20.6	3.6	62.5	42.7	18.8	452.2	10.7	12.9
14	11	2003	0.0	0.0	16.5	3.5	2.1	14.6	15.9	26.0	4.3	62.8	48.3	15.0	361.0	10.4	12.7
15	11	2003	3.2	6.1	21.4	10.9	8.7	14.8	16.0	20.8	4.2	63.4	70.2	26.4	633.5	10.2	12.5
16	11	2003	0.4	4.6	23.5	5.7	4.2	14.5	15.5	14.5	5.5	53.1	62.0	23.1	555.0	10.2	12.5
17	11	2003	1.8	0.6	12.0	9.3	9.7	14.4	15.6	11.6	1.9	73.5	54.8	20.5	491.5	10.0	12.4
18	11	2003	0.0	0.0	16.5	-0.1	-1.8	12.0	13.9	22.7	2.9	70.3	48.3	15.5	371.0	9.9	12.2
19	11	2003	0.0	0.0	18.1	0.4	-2.0	13.6	14.1	29.1	3.8	77.2	28.1	9.7	232.5	9.9	12.2
20	11	2003	0.0	4.1	21.9	6.3	4.7	16.0	15.4	29.1	5.1	72.2	37.7	12.6	302.2	9.8	12.2
21	11	2003	0.0	8.2	28.9	7.4	5.6	17.3	16.4	23.7	9.2	49.2	66.9	27.4	657.4	9.7	12.1
22	11	2003	0.0	5.6	17.1	14.2	15.1	18.5	17.3	12.3	2.0	77.8	54.2	18.3	440.3	9.4	12.0
23	11	2003	0.0	3.8	17.7	9.9	9.2	17.0	16.5	29.8	4.4	60.0	54.3	20.3	486.1	9.3	11.8
24	11	2003	0.0	2.3	17.6	7.1	4.9	18.3	17.2	16.2	2.3	70.1	48.2	20.4	489.1	9.1	11.8
25	11	2003	2.8	0.8	14.7	7.0	7.1	16.4	16.7	14.6	2.3	71.5	26.1	9.2	221.1	9.0	11.7
26	11	2003	22.4	0.1	12.1	8.2	7.6	15.3	16.5	6.3	0.7	87.9	39.3	19.8	475.5	10.3	11.8
27	11	2003	6.2	1.8	15.3	8.3	8.3	13.8	15.2	14.8	2.0	82.4	33.6	13.5	324.6	14.9	12.5
28	11	2003	0.0	1.0	15.6	6.4	6.4	14.0	15.1	24.2	2.9	71.0	51.1	17.1	410.4	16.5	13.0
29	11	2003	0.0	3.6	22.3	4.9	2.9	14.4	15.2	31.5	6.0	63.3	45.7	13.3	318.7	15.6	13.1
30	11	2003	0.0	2.7	21.0	4.4	3.5	15.8	16.1	31.0	4.7	74.2	32.0	9.1	217.3	14.5	13.1
Average Monthly																	
Total Monthly																	
Maximum Monthly																	
Minimum Monthly																	
Avg Monthly Temp																	
13.2																	
19.1																	
7.3																	
5.3																	
15.0																	
15.4																	
22.6																	
64.8																	
18.4																	
442.7																	
11.7																	
13.3																	
50.4																	
676.9																	
126.4																	
28.9																	
80.0																	
13279.8																	
16.5																	
16.4																	
9.0																	
11.7																	

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	2003	0.0	7.3	25.9	8.8	8.4	17.4	17.0	31.3	8.5	54.2	53.5	17.3	415.1	13.7	13.2
2	12	2003	0.0	9.7	25.5	13.8	11.5	17.9	17.8	23.1	3.8	59.9	61.6	23.1	553.3	12.8	13.1
3	12	2003	0.0	4.3	18.5	10.0	11.1	17.5	18.0	17.0	2.4	82.1	24.9	9.0	217.2	12.2	13.1
4	12	2003	0.0	5.6	26.4	4.8	4.2	17.3	17.2	29.4	9.0	58.6	49.5	18.1	435.2	11.7	12.9
5	12	2003	0.0	11.3	26.2	16.5	13.3	18.9	18.4	23.9	6.4	52.2	57.5	27.7	663.7	10.9	12.8
6	12	2003	0.0	9.6	23.1	16.2	13.7	19.1	18.6	22.6	3.8	68.6	62.0	24.0	575.0	10.3	12.6
7	12	2003	0.4	5.4	21.1	9.7	8.8	19.5	18.6	27.6	3.8	73.3	35.9	12.7	304.0	9.9	12.4
8	12	2003	0.2	4.7	19.2	10.3	9.2	18.6	19.3	23.2	3.6	76.1	46.7	16.4	394.4	9.7	12.3
9	12	2003	0.0	6.0	19.7	12.3	13.9	19.8	19.2	16.5	2.7	69.7	51.0	23.1	555.1	9.4	12.1
10	12	2003	0.0	4.3	18.5	10.1	11.2	17.5	18.7	20.7	3.2	74.8	30.5	13.7	329.6	9.2	12.0
11	12	2003	0.0	6.6	26.2	7.1	6.2	18.4	18.1	31.2	5.9	73.4	33.9	12.0	287.4	9.1	11.9
12	12	2003	0.0	10.5	30.2	10.7	9.5	21.4	19.4	31.4	9.3	58.2	59.0	22.3	534.9	9.0	11.8
13	12	2003	0.0	13.9	28.3	19.5	17.2	23.7	20.7	29.5	7.8	63.2	52.9	25.5	611.9	8.8	11.8
14	12	2003	0.0	14.0	29.0	18.9	17.4	23.9	21.5	28.6	9.1	58.1	61.5	23.3	559.9	8.7	11.7
15	12	2003	0.0	6.6	25.8	7.5	5.0	20.5	21.4	29.5	8.6	45.0	55.0	20.3	486.5	8.5	11.6
16	12	2003	0.0	5.6	18.2	13.0	10.2	21.9	21.3	17.5	2.7	70.4	51.4	22.4	538.1	8.3	11.5
17	12	2003	0.0	1.9	21.1	2.7	1.9	19.3	19.9	32.2	4.5	68.2	30.0	9.9	238.1	8.2	11.4
18	12	2003	0.0	4.3	23.7	5.0	3.3	21.0	20.3	31.6	5.1	71.6	40.1	14.2	341.2	8.1	11.4
19	12	2003	0.0	4.2	20.7	7.6	6.5	22.0	21.2	24.8	4.6	74.6	35.0	12.8	306.0	8.1	11.4
20	12	2003	0.0	7.5	25.0	10.1	8.3	20.5	21.1	14.1	6.0	57.2	59.5	22.0	527.1	8.0	11.3
21	12	2003	0.0	12.5	28.8	16.3	13.9	21.9	20.2	25.3	9.2	45.7	60.3	25.1	602.6	8.0	11.2
22	12	2003	0.0	2.7	20.3	5.1	4.0	20.9	20.6	27.2	4.3	72.4	38.6	14.1	337.9	7.9	11.2
23	12	2003	0.2	6.5	25.2	7.7	6.4	19.7	21.0	19.1	5.2	67.5	51.5	16.9	404.7	7.8	11.1
24	12	2003	0.0	9.8	25.8	13.9	14.9	21.1	20.9	26.2	8.9	44.8	53.9	25.6	614.9	7.8	11.1
25	12	2003	0.0	9.9	25.5	14.3	11.9	21.0	21.3	29.3	9.0	41.8	66.0	31.9	764.7	7.8	11.1
26	12	2003	0.0	11.9	28.2	15.5	13.9	21.4	21.5	24.4	9.7	38.9	80.2	34.2	820.9	7.8	11.1
27	12	2003	7.8	11.9	28.5	15.3	13.2	21.7	21.5	27.3	8.5	44.9	63.7	26.4	634.2	7.7	11.1
28	12	2003	0.4	11.1	26.7	15.6	15.0	21.7	21.8	31.7	7.1	59.1	47.2	18.0	431.9	8.2	11.2
29	12	2003	4.2	8.3	23.9	12.7	8.6	20.5	21.7	23.4	5.2	54.8	45.6	14.0	335.8	8.2	11.2
30	12	2003	0.0	4.0	19.0	9.0	7.3	18.8	21.1	32.4	4.8	66.8	62.7	23.1	553.3	8.2	11.1
31	12	2003	0.0	3.7	23.7	3.7	2.2	18.9	20.6	31.8	5.0	73.2	29.5	10.5	251.4	8.2	11.2
Average Monthly																	
Total Monthly																	
Maximum Monthly																	
Minimum Monthly																	
Avg Monthly Temp																	
17.6																	
24.1																	
11.1																	
9.7																	
20.1																	
20.0																	
6.0																	
62.2																	
803.9																	
187.5																	
80.2																	
471.8																	
19.7																	
14625.8																	
13.7																	
7.7																	
11.1																	
11.8																	