

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	2004	11.2	7.6	20.3	14.9	14.0	20.6	21.9	7.3	0.9	92.6	24.2	6.9	165.9	8.0	11.4
2	2	2004	0.2	11.9	26.7	17.0	18.2	21.6	21.6	13.9	4.2	81.5	33.8	12.8	306.0	8.8	11.8
3	2	2004	0.0	12.1	27.3	16.8	14.7	21.0	21.7	20.7	6.4	65.2	47.0	20.7	495.8	8.7	11.8
4	2	2004	2.6	13.4	27.6	19.2	17.8	21.5	21.8	21.9	4.9	68.8	53.4	18.9	454.3	8.7	11.7
5	2	2004	0.0	5.9	18.6	13.2	12.0	20.3	22.0	12.0	2.6	76.2	51.5	22.7	544.0	8.6	11.7
6	2	2004	0.0	8.9	25.8	12.0	10.8	19.0	20.7	24.3	7.1	59.1	44.9	15.4	368.5	8.5	11.6
7	2	2004	0.0	13.1	27.9	18.4	17.3	20.2	21.6	10.6	6.5	46.2	54.8	21.5	516.4	8.5	11.6
8	2	2004	1.8	6.5	19.3	13.8	11.0	19.2	21.0	12.1	2.1	82.0	41.6	11.5	276.2	8.4	11.6
9	2	2004	0.4	6.7	24.1	9.4	7.2	17.8	20.1	24.3	6.0	63.4	58.5	18.4	442.5	8.4	11.5
10	2	2004	0.0	12.7	29.7	15.8	14.3	20.0	20.4	22.3	6.5	60.6	57.8	18.8	451.5	8.4	11.5
11	2	2004	2.8	10.4	26.4	14.5	14.3	20.4	21.2	14.9	6.2	63.3	50.9	19.6	470.2	8.4	11.5
12	2	2004	0.0	6.5	18.0	15.0	14.3	19.8	20.8	10.5	2.9	70.4	59.4	18.4	441.3	8.5	11.5
13	2	2004	6.0	5.5	23.1	7.9	5.4	17.3	19.6	21.1	4.6	65.5	37.7	14.8	354.8	8.4	11.5
14	2	2004	0.0	7.5	24.3	10.7	10.4	18.1	19.9	24.3	5.2	68.3	54.5	13.4	320.4	9.3	11.7
15	2	2004	0.4	4.1	16.5	11.8	10.5	17.5	20.1	9.4	3.4	66.4	80.8	41.4	994.6	9.4	11.7
16	2	2004	11	4.5	18.5	10.6	9.1	15.6	18.6	9.3	2.1	70.4	72.2	19.7	472.1	9.2	11.6
17	2	2004	0.4	4.5	18.9	10.0	9.6	14.8	18.4	15.8	3.1	79.7	46.6	17.1	410.5	11.3	12.6
18	2	2004	0	8.1	25.8	10.3	9.9	16.7	18.4	22.2	7.1	48.3	72.2	29.0	697.2	11.9	12.8
19	2	2004	3.6	8.0	22.2	13.7	12.1	16.5	18.7	23.5	5.1	53.7	69.0	29.5	708.2	11.7	12.7
20	2	2004	0	4.6	19.9	9.3	6.2	16.7	18.7	25.8	6.4	45.2	59.6	26.2	629.1	11.6	12.6
21	2	2004	0	7.7	24.3	11.1	8.2	15.7	18.4	21.2	6.5	47.3	83.6	32.3	774.2	11.4	12.5
22	2	2004	0	10.0	24.7	15.4	12.7	17.2	18.6	22.1	6.1	50.4	66.2	21.7	519.8	11.0	12.4
23	2	2004	0.6	4.3	20.6	8.0	5.7	16.9	18.7	8.8	4.6	70.7	40.2	14.9	357.4	10.7	12.3
24	2	2004	0	7.5	21.6	13.3	10.2	16.9	18.1	26.1	7.4	46.2	68.3	26.3	630.0	10.4	12.2
25	2	2004	0.0	2.6	20.8	4.5	0.8	15.9	18.1	23.0	5.1	47.8	44.7	16.2	389.7	10.0	12.1
26	2	2004	0.0	1.1	16.0	6.2	3.3	17.0	18.5	10.7	2.6	71.8	36.6	9.7	232.1	9.6	11.9
27	2	2004	19.8	0.4	17.0	3.7	0.3	15.4	17.8	10.8	2.5	75.4	22.2	8.0	193.0	9.4	11.8
28	2	2004	22.4	6.2	20.6	11.8	12.0	16.1	17.8	5.8	1.1	95.8	20.0	6.1	146.9	15.2	19.6
29	2	2004	0.0	8.5	23.9	13.2	13.7	17.7	17.8	16.4	2.7	80.6	46.5	15.5	371.1	19.3	23.4
Average Monthly																	
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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	3	2004	0.4	7.8	24.3	11.2	8.6	18.0	18.6	21.8	5.0	70.4	51.5	15.0	360.4	19.8	22.2
2	3	2004	0	7.1	20.7	13.4	9.0	17.9	18.9	12.7	2.5	78.2	45.5	18.2	436.3	17.8	21.3
3	3	2004	0	2.5	16.1	9.0	4.1	16.0	18.3	21.5	3.3	60.6	68.0	29.4	706.6	17.4	20.6
4	3	2004	0	0.9	17.1	4.7	1.9	15.4	17.7	18.3	2.6	75.3	38.8	12.4	298.0	16.9	19.9
5	3	2004	0	4.4	24.5	4.3	1.8	15.5	17.4	23.1	5.3	67.7	38.1	13.1	314.0	16.3	19.2
6	3	2004	0	6.7	21.1	12.2	8.6	17.1	18.1	20.7	3.0	62.4	54.9	16.6	399.4	15.7	18.4
7	3	2004	0	3.6	19.1	8.0	5.8	16.8	18.4	14.8	2.5	82.3	21.0	5.9	141.9	15.1	17.9
8	3	2004	0	6.5	23.7	9.4	7.3	16.9	18.1	13.7	3.9	75.0	42.6	15.0	360.1	14.7	17.4
9	3	2004	0	11.7	26.1	17.3	15.8	18.1	18.4	22.1	6.1	61.6	61.3	28.4	681.5	14.2	16.8
10	3	2004	0	11.0	24.8	17.2	14.6	18.8	19.0	21.3	5.4	62.9	74.0	32.4	777.7	13.5	16.0
11	3	2004	0	8.9	24.0	13.9	10.6	17.7	19.1	19.2	4.0	51.5	77.7	23.7	567.9	12.8	15.3
12	3	2004	0	4.3	18.1	10.6	9.3	17.8	18.8	10.9	2.2	76.2	28.5	8.8	211.8	12.3	14.7
13	3	2004	0	3.6	21.9	5.2	2.1	16.3	18.1	18.5	4.0	70.0	35.2	12.4	297.1	11.8	14.3
14	3	2004	0	2.8	20.9	4.6	1.5	15.1	17.8	21.0	3.8	75.2	27.1	8.5	203.1	11.3	13.9
15	3	2004	0	3.5	21.5	5.6	2.7	15.4	17.6	18.6	3.7	74.7	28.1	9.6	230.9	10.8	13.5
16	3	2004	6.8	7.8	23.4	12.2	8.6	16.8	17.9	19.4	4.2	66.6	52.8	23.4	561.4	10.4	13.2
17	3	2004	1.0	5.2	16.2	14.1	13.9	17.5	18.2	5.4	0.6	90.0	38.4	15.5	372.7	10.6	13.2
18	3	2004	0.0	4.9	18.0	11.8	9.6	16.7	17.9	10.5	2.0	86.7	18.7	6.5	155.9	10.7	13.2
19	3	2004	0.0	6.4	22.7	10.1	6.1	15.7	17.6	16.6	5.5	58.5	52.1	19.2	461.1	10.5	13.1
20	3	2004	0.0	8.7	25.5	11.8	8.6	16.0	17.3	19.4	7.1	45.9	56.0	21.5	517.1	10.2	13.0
21	3	2004	0.0	7.9	24.9	10.9	7.0	16.1	17.6	16.2	5.8	51.5	67.3	22.7	545.9	9.9	12.8
22	3	2004	0.0	5.4	24.5	6.4	3.7	15.7	17.5	19.8	6.2	67.4	42.0	11.2	267.7	9.6	12.6
23	3	2004	0.0	5.9	25.6	6.1	1.9	15.2	17.2	17.6	6.5	44.5	76.6	25.4	609.7	9.3	12.4
24	3	2004	0.6	0.2	11.8	8.6	7.3	15.4	17.3	5.9	1.2	83.3	43.1	12.8	308.2	9.0	12.3
25	3	2004	0.0	0.0	17.2	2.0	-2.3	12.3	16.0	18.3	3.8	71.0	26.8	9.2	220.1	8.9	12.1
26	3	2004	0.0	4.0	22.7	5.3	0.9	13.7	15.8	18.4	6.1	50.0	55.1	22.7	544.6	8.7	12.0
27	3	2004	0.0	9.1	23.4	14.7	11.9	16.0	16.4	18.6	5.8	46.0	83.3	31.6	759.1	8.6	11.9
28	3	2004	3.8	0.0	17.0	3.0	-0.3	13.8	16.4	13.6	2.8	66.4	30.3	9.9	236.8	8.4	11.8
29	3	2004	0.2	0.9	18.1	3.8	1.7	12.8	15.9	12.5	3.0	71.2	42.9	11.5	276.7	8.3	11.7
30	3	2004	0.0	1.7	18.7	4.6	1.3	13.1	15.5	15.9	2.5	74.1	50.8	15.6	374.8	8.3	11.7
31	3	2004	0.0	0.2	17.3	3.1	-0.1	13.2	15.6	16.6	2.6	80.7	27.9	7.7	184.3	8.2	11.7
Average Monthly																	
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153.3																	
26.1																	
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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	2004	3.0	4.0	17.6	10.5	6.3	12.8	13.8	3.9	1.0	86.8	32.2	11.6	278.5	12.2	14.2
2	5	2004	0.0	7.5	21.2	13.8	11.2	13.8	14.1	11.6	3.4	67.5	54.6	24.4	586.8	12.2	14.2
3	5	2004	2.6	7.6	21.0	14.2	8.5	13.8	14.2	11.5	3.2	64.2	48.4	19.1	458.2	12.1	14.2
4	5	2004	0.2	2.6	17.6	7.6	6.0	12.8	14.2	11.3	3.0	67.4	59.1	17.7	425.7	12.0	14.1
5	5	2004	1.6	5.1	18.9	11.3	6.4	13.2	13.9	7.1	2.6	62.8	73.9	27.1	650.9	12.0	14.0
6	5	2004	0.2	2.9	16.3	9.5	5.9	11.4	13.5	10.8	3.4	51.2	77.0	33.6	805.4	11.9	13.9
7	5	2004	0.0	4.9	19.1	10.8	6.6	11.6	13.0	6.7	3.9	50.9	70.9	29.7	713.1	11.8	13.8
8	5	2004	0.0	2.1	19.8	4.4	0.3	10.9	13.1	11.0	3.0	63.4	40.6	10.5	251.4	11.6	13.7
9	5	2004	0.0	2.8	19.1	6.5	0.8	10.5	12.8	10.5	2.5	67.9	27.5	8.3	198.1	11.5	13.6
10	5	2004	0.4	0.0	15.8	2.5	-1.1	9.2	12.3	8.3	1.3	83.2	17.4	6.3	150.5	11.4	13.4
11	5	2004	0.0	1.6	16.5	6.7	5.0	11.6	12.5	4.1	1.2	84.2	29.8	10.4	248.7	11.3	13.4
12	5	2004	26.6	4.5	17.2	11.9	11.2	12.9	13.1	2.9	1.0	85.1	32.6	11.1	266.3	11.7	13.7
13	5	2004	0.0	5.2	18.6	11.8	9.1	13.0	13.4	4.9	0.9	87.4	29.0	8.9	213.6	18.2	22.9
14	5	2004	0.0	0.6	14.9	6.3	4.1	12.3	13.5	9.9	1.3	88.9	53.2	20.4	489.6	18.0	21.4
15	5	2004	0.0	0.0	10.9	7.2	4.8	11.6	13.2	8.9	1.0	77.9	57.9	28.4	682.7	17.7	21.9
16	5	2004	0.0	0.0	11.2	3.8	3.7	10.3	12.5	6.8	1.2	80.4	34.1	11.0	264.5	17.4	20.3
17	5	2004	0.0	0.0	12.0	3.7	0.8	9.9	11.9	6.2	1.1	78.6	25.1	12.7	304.0	17.1	19.4
18	5	2004	1.0	0.0	13.0	6.4	4.7	10.5	11.8	5.4	0.9	87.3	22.7	10.5	253.1	16.8	19.0
19	5	2004	0.0	1.5	15.1	7.9	6.5	10.8	12.0	6.9	1.0	85.3	25.4	11.2	269.0	16.7	18.7
20	5	2004	0.0	0.0	16.6	2.9	-0.5	10.2	12.1	8.8	1.8	83.0	22.0	7.4	177.2	16.5	18.4
21	5	2004	0.0	0.0	16.4	1.9	-1.3	8.9	11.6	9.4	1.9	75.5	35.8	11.1	266.6	16.2	18.1
22	5	2004	3.0	2.5	14.5	10.5	7.1	11.2	11.7	5.8	0.9	87.1	50.2	18.2	437.1	16.0	17.8
23	5	2004	2.2	0.1	11.0	9.3	8.5	11.5	12.0	3.6	0.3	93.3	36.4	17.7	423.9	15.9	17.8
24	5	2004	0.2	0.0	10.9	7.2	5.6	11.2	12.1	3.2	0.8	87.1	34.2	9.3	223.5	15.9	17.7
25	5	2004	0.0	0.0	12.3	7.5	4.1	10.6	11.9	6.1	1.0	82.3	35.8	16.7	400.1	16.0	17.6
26	5	2004	0.0	0.0	15.4	0.8	-2.2	8.6	11.4	9.0	1.7	79.0	28.8	7.4	178.6	15.9	17.5
27	5	2004	0.0	0.0	15.8	3.1	-0.8	8.6	10.9	8.4	1.8	70.6	24.5	9.9	236.7	15.8	17.4
28	5	2004	6.8	1.3	15.3	7.2	2.8	9.8	10.8	3.5	1.2	83.1	23.4	8.5	204.4	15.7	17.2
29	5	2004	0.2	3.8	16.6	11.1	8.5	11.1	11.4	7.0	2.8	66.7	61.9	21.1	505.4	17.1	18.1
30	5	2004	0.0	1.9	14.7	9.1	3.9	9.9	11.3	6.2	1.8	65.8	46.9	15.4	368.6	17.0	18.0
31	5	2004	0.0	0.0	12.1	3.6	-0.8	9.0	10.8	6.2	1.4	69.8	54.7	17.0	408.0	16.8	17.8
Average Monthly																	
Total Monthly																	
Maximum Monthly																	
Minimum Monthly																	
Avg Monthly Temp																	
11.6																	
48.0																	
62.5																	
21.2																	
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7.4																	
4.4																	
11.1																	
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1	6	2004	0.0	0.0	17.3	0.7	-2.2	7.5	10.1	5.9	2.3	65.5	43.6	13.6	326.6	16.6	17.6
2	6	2004	0.0	2.4	18.6	6.3	4.5	9.9	10.4	6.0	3.1	48.7	78.6	24.4	585.7	16.3	17.4
3	6	2004	0.0	4.4	17.6	11.1	8.2	10.5	11.0	4.0	2.9	50.5	56.9	24.5	588.2	15.8	17.1
4	6	2004	0.2	4.9	18.1	11.8	8.1	10.9	11.1	5.3	1.8	70.0	65.9	20.3	487.0	15.6	17.0
5	6	2004	0.0	1.1	14.4	7.9	1.2	9.7	11.2	7.8	2.2	59.4	40.9	13.8	330.7	15.5	16.7
6	6	2004	0.0	0.0	12.2	-0.4	-2.0	8.3	10.5	8.2	2.2	54.7	47.0	14.8	354.8	15.4	16.5
7	6	2004	0.0	0.0	13.3	0.0	-2.3	6.8	9.8	8.1	1.9	61.9	40.9	8.8	210.2	15.2	16.4
8	6	2004	0.0	0.0	12.7	-2.6	-5.3	5.5	9.1	7.9	1.4	78.3	18.6	6.7	160.9	15.1	16.3
9	6	2004	0.0	0.0	12.6	0.8	-3.2	6.4	8.9	7.4	1.1	81.8	26.8	8.1	195.3	15.0	16.2
10	6	2004	4.2	0.0	13.4	-1.8	-5.8	5.2	8.4	5.7	1.0	81.9	38.4	9.6	229.2	14.8	16.2
11	6	2004	2.6	0.0	12.0	2.0	-0.9	7.1	8.6	3.7	0.6	92.6	15.7	6.3	151.1	14.9	16.1
12	6	2004	0.0	0.0	12.9	-0.9	-4.9	5.6	8.3	7.9	1.2	83.8	22.7	8.9	214.1	15.1	16.1
13	6	2004	0.0	0.0	13.9	0.3	-3.8	4.9	7.9	6.9	2.3	59.1	45.0	18.0	432.0	15.0	16.1
14	6	2004	0.0	0.0	16.0	3.8	-1.2	7.8	8.2	5.0	1.9	70.1	50.5	20.5	491.9	15.0	16.0
15	6	2004	0.0	5.0	17.7	12.3	8.0	9.6	9.2	5.2	2.1	69.4	43.3	19.5	468.6	14.9	16.0
16	6	2004	0.0	5.9	18.8	13.1	8.1	10.5	10.0	6.0	2.3	63.6	49.0	20.0	479.6	14.8	15.9
17	6	2004	1.2	0.0	10.0	7.6	4.0	9.9	10.4	1.7	0.3	89.4	37.2	14.8	355.8	14.7	15.9
18	6	2004	25.6	1.3	14.3	8.2	8.3	9.9	10.3	0.8	0.5	89.7	40.2	16.6	398.2	17.9	19.5
19	6	2004	0.6	1.9	15.7	8.0	4.6	10.2	10.7	6.7	1.9	70.5	38.8	15.0	360.6	21.4	23.8
20	6	2004	0.0	3.8	16.5	11.1	5.4	10.1	10.6	5.4	2.1	68.3	48.4	20.2	483.6	21.3	23.3
21	6	2004	3.8	1.3	13.2	9.5	5.8	9.7	10.7	4.0	1.5	68.6	88.8	28.2	676.4	21.8	23.1
22	6	2004	0.0	0.0	12.5	4.8	1.0	8.0	10.0	6.7	1.6	66.4	52.2	14.7	352.4	22.1	23.4
23	6	2004	0.0	0.0	11.1	-2.8	-6.2	5.7	9.1	7.3	1.8	66.7	22.7	9.3	223.0	22.1	23.2
24	6	2004	0.0	0.0	14.4	-1.1	-3.6	5.2	8.2	7.3	2.1	61.0	32.5	14.0	336.0	22.8	23.0
25	6	2004	0.0	0.0	16.6	2.2	-1.0	6.6	8.3	6.4	2.2	67.0	42.8	12.1	290.0	22.6	22.7
26	6	2004	0.2	1.2	16.2	6.1	2.9	8.4	8.7	4.6	1.2	76.9	33.0	13.2	317.7	22.4	22.5
27	6	2004	0.4	2.6	14.4	10.8	6.8	9.6	9.4	2.3	1.3	82.5	47.1	16.3	390.3	22.1	22.3
28	6	2004	0.0	2.6	15.3	10.0	5.5	9.3	9.8	7.4	2.7	56.0	58.3	23.3	558.4	21.9	22.2
29	6	2004	0.0	0.8	15.6	6.0	1.6	8.4	9.7	5.7	1.7	66.6	46.1	13.4	321.6	21.2	21.9
30	6	2004	0.0	0.0	12.5	2.0	-1.9	7.2	9.2	3.6	1.7	65.7	52.2	17.9	430.3	21.3	21.8
Average Monthly																	
Total Monthly 38.8 39.2																	
Maximum Monthly 18.8																	
Minimum Monthly -2.8 -6.2																	
Avg Monthly Temp 9.8																	
Average Monthly 14.6 4.9 1.3 8.1 9.6 5.7 1.8 69.6 15.6 373.3 18.0 19.1																	
Total Monthly 38.8 39.2 170.9 53.0 11200.0																	
Maximum Monthly 18.8 88.8 22.8																	
Minimum Monthly -2.8 -6.2 14.7 15.9																	
Avg Monthly Temp 9.8																	

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	Soil Temp 30cm	Solar Energy	Penman ET	RH	Max Wind Speed	Avg Wind Speed	Daily Wind Run	Soil Moisture 0-200mm	Soil Moisture 200-400mm
1	8	2004	0.0	0.0	11.1	0.1	-4.3	5.4	7.6	9.5	1.4	77.4	31.9	12.2	291.9	25.4	27.9
2	8	2004	0.0	0.0	9.6	0.2	-4.0	5.2	7.3	7.0	0.8	83.6	32.7	12.4	298.3	25.3	27.6
3	8	2004	0.0	0.0	9.0	1.1	-0.9	6.2	7.4	5.9	0.9	85.1	18.1	6.0	144.0	25.1	27.1
4	8	2004	5.0	0.0	10.7	-1.7	-6.0	5.2	7.3	9.0	1.2	80.3	31.3	10.0	239.3	25.0	26.6
5	8	2004	13.6	0.0	13.0	3.2	0.7	7.2	7.5	5.8	0.7	91.7	18.9	7.2	171.9	24.8	27.9
6	8	2004	0.0	0.9	13.7	8.0	7.5	8.6	8.3	5.9	1.2	81.2	52.3	11.8	284.1	28.4	38.1
7	8	2004	0.0	0.8	12.3	9.3	6.6	8.6	8.8	2.9	1.5	69.2	37.3	14.8	356.3	26.7	32.6
8	8	2004	2.8	0.0	14.4	1.7	-1.7	7.2	8.6	9.9	1.4	78.5	33.4	9.4	225.5	26.2	30.7
9	8	2004	0.0	0.0	14.0	1.1	-2.0	6.9	8.4	9.8	1.9	72.1	45.5	10.0	240.3	26.4	30.6
10	8	2004	5.0	0.0	13.8	5.8	0.3	7.2	8.3	11.5	3.1	50.1	55.8	23.0	553.1	26.0	29.6
11	8	2004	0.2	0.7	14.2	7.2	1.9	7.9	8.3	11.2	2.9	58.1	69.6	27.8	666.9	26.9	30.9
12	8	2004	0.0	2.3	16.8	7.8	3.4	8.2	8.3	10.1	3.5	55.5	63.4	28.3	679.6	23.8	30.1
13	8	2004	0.0	4.3	17.8	10.9	5.0	8.8	8.9	8.8	2.9	59.0	90.9	18.4	441.1	23.5	29.0
14	8	2004	4.4	0.5	15.2	5.9	1.3	8.5	9.0	5.7	2.2	58.1	80.0	26.9	644.6	25.7	28.3
15	8	2004	5.0	2.6	14.6	10.5	7.7	9.8	9.4	7.1	0.9	81.3	81.9	26.5	636.9	26.2	29.0
16	8	2004	0.0	0.0	8.2	0.9	-1.3	7.6	9.2	11.5	1.9	64.0	50.0	17.0	408.1	27.1	31.1
17	8	2004	2.4	0.0	9.3	0.3	-4.1	5.9	8.3	6.6	1.3	68.6	74.0	27.4	657.4	27.0	29.9
18	8	2004	0.0	0.0	12.0	3.8	3.0	6.5	7.8	10.3	2.1	61.6	80.0	39.2	939.7	26.9	29.3
19	8	2004	0.0	0.0	12.3	6.3	1.9	7.3	8.1	10.6	1.5	71.6	48.4	18.7	448.7	26.5	28.8
20	8	2004	0.0	0.0	11.5	3.7	1.3	7.5	8.4	9.3	1.1	81.8	25.2	8.1	194.9	26.1	28.4
21	8	2004	0.0	0.0	12.2	6.5	6.0	8.5	8.7	8.2	1.6	85.7	23.3	7.3	176.3	25.8	28.1
22	8	2004	0.0	0.4	14.7	6.0	0.5	7.9	8.9	8.0	2.3	58.7	65.2	23.6	566.5	25.5	27.7
23	8	2004	0.0	0.0	10.6	3.1	-2.2	7.5	8.8	9.9	1.5	66.6	51.8	15.4	370.7	25.2	27.2
24	8	2004	0.0	0.0	10.4	-3.3	-6.9	5.3	8.2	14.1	2.5	56.1	26.3	10.3	246.7	25.0	26.8
25	8	2004	0.0	0.0	10.3	-0.5	-4.2	5.9	7.9	14.3	1.9	63.0	44.9	15.9	382.7	24.7	26.5
26	8	2004	0.0	0.0	10.5	-3.7	-8.0	4.5	7.5	13.0	1.8	70.5	23.2	7.8	186.0	24.4	26.2
27	8	2004	0.4	0.0	10.2	-1.0	-4.1	5.6	7.4	8.6	1.6	73.0	37.1	11.6	277.4	24.2	25.8
28	8	2004	0.0	0.0	10.8	1.6	-3.0	5.7	7.3	12.5	2.0	64.5	43.8	15.8	379.2	24.0	25.6
29	8	2004	0.0	0.0	10.4	-2.0	-5.5	5.2	7.2	12.9	1.8	74.8	40.0	11.9	284.4	23.7	25.2
30	8	2004	0.0	0.0	10.9	-3.2	-7.8	4.1	7.0	14.3	1.7	76.9	24.5	8.0	192.5	23.4	24.9
31	8	2004	0.6	0.0	19.6	-1.6	-6.4	4.7	6.8	13.6	2.5	66.3	50.4	18.8	450.9	23.1	24.6
Average Monthly																	
Total Monthly																	
Maximum Monthly																	
Minimum Monthly																	
Avg Monthly Temp																	
39.4																	
12.5																	
19.6																	
-3.7																	
-8.0																	
7.6																	
12.4																	
2.8																	
-0.8																	
6.8																	
8.1																	
9.6																	
1.8																	
70.5																	
388.3																	
12035.8																	
16.2																	
25.4																	
28.5																	
28.4																	
23.1																	
24.6																	

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	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 %
1	9	2004	8.0	1.1	13.7	8.4	0.0	7.4	7.3	5.9	1.4	75.4	55.0	21.5	516.2	23.4	25.0
2	9	2004	0.0	0.3	14.0	6.5	0.2	7.3	7.8	12.7	2.6	65.2	50.1	15.7	377.1	23.9	25.5
3	9	2004	0.0	0.0	11.4	4.1	0.4	7.4	8.2	13.5	2.1	68.6	47.0	15.0	360.0	23.6	25.2
4	9	2004	0.0	0.0	14.1	-1.0	-6.9	6.0	7.9	14.8	3.2	62.7	25.9	9.9	238.0	23.4	24.9
5	9	2004	0.2	1.5	17.2	5.8	-0.3	7.5	8.1	12.9	2.2	59.6	56.8	24.5	588.2	23.1	24.5
6	9	2004	0.0	0.0	12.3	-0.6	-5.3	6.8	8.3	11.7	1.6	79.9	27.5	8.8	210.7	22.9	24.3
7	9	2004	0.0	0.0	15.3	-0.2	-4.5	6.6	8.1	16.4	2.0	81.1	22.4	8.7	207.8	22.6	24.0
8	9	2004	0.0	0.0	16.5	0.0	-4.3	7.4	8.3	16.8	2.9	69.8	37.7	12.8	307.4	22.3	23.7
9	9	2004	0.0	2.9	17.6	8.1	2.3	8.6	8.8	16.1	3.6	58.5	44.6	20.3	486.7	21.8	23.3
10	9	2004	0.0	2.7	15.3	10.1	5.4	9.2	9.3	7.8	2.7	60.0	55.4	21.9	526.5	21.4	23.0
11	9	2004	0.2	3.8	15.9	11.8	11.2	9.8	9.6	6.5	2.2	70.3	58.4	18.8	452.2	21.3	22.9
12	9	2004	4.8	4.1	16.1	12.2	10.3	10.3	10.1	6.2	2.1	71.9	50.0	17.6	421.8	21.2	22.8
13	9	2004	8.4	2.4	14.1	10.7	10.1	10.8	10.3	6.0	1.6	80.1	60.7	24.7	592.3	22.5	23.3
14	9	2004	0.4	3.1	16.7	9.5	7.8	9.1	10.1	9.3	2.2	65.4	49.7	18.5	445.1	24.3	24.1
15	9	2004	0.2	0.5	16.3	4.7	1.9	8.4	9.7	16.5	3.5	63.3	61.3	20.2	484.0	24.1	24.1
16	9	2004	17.0	2.4	15.5	9.3	7.8	9.5	10.1	10.6	1.7	74.0	46.4	17.8	427.8	25.5	26.1
17	9	2004	0.0	0.0	15.4	1.5	-0.7	8.2	10.0	14.1	3.5	64.2	63.1	19.8	474.6	27.8	32.0
18	9	2004	0.0	2.2	15.6	8.7	6.7	8.6	9.8	16.5	3.2	60.4	70.6	24.9	597.8	27.2	30.9
19	9	2004	0.0	0.0	11.8	0.7	-2.7	8.3	9.8	14.3	2.6	69.8	36.8	10.4	250.7	26.8	29.9
20	9	2004	0.0	0.0	15.0	0.3	-2.3	7.4	9.4	18.8	3.0	69.5	32.5	12.1	289.7	26.6	29.3
21	9	2004	0.0	0.0	17.4	1.4	-1.6	8.3	9.7	15.7	3.7	63.1	44.7	15.2	365.1	26.2	28.8
22	9	2004	0.0	1.5	15.7	7.4	3.6	9.8	10.2	13.5	3.2	55.3	67.4	17.6	422.0	25.6	28.3
23	9	2004	0.0	1.6	21.0	2.1	-0.5	8.5	10.0	15.3	3.7	58.7	59.6	16.8	403.9	25.2	27.9
24	9	2004	0.0	0.7	13.4	8.0	5.8	10.6	10.6	13.5	1.6	80.3	39.2	11.5	276.0	24.9	27.4
25	9	2004	0.0	0.0	12.7	5.5	2.8	10.2	11.0	17.1	1.9	77.4	44.5	17.0	407.9	24.9	27.0
26	9	2004	0.0	0.0	17.6	-0.1	-2.6	9.1	10.6	18.6	4.0	69.5	26.2	7.5	180.1	24.5	26.6
27	9	2004	26.0	1.0	16.9	5.1	1.9	10.3	11.1	8.3	2.7	62.2	58.3	25.7	617.7	24.0	26.0
28	9	2004	8.6	0.0	7.8	5.0	4.6	8.9	11.0	5.6	0.9	86.2	66.6	25.7	617.2	36.8	40.5
29	9	2004	0.0	0.0	13.4	0.7	-1.8	7.3	9.5	18.4	2.7	63.6	50.2	16.0	383.1	37.4	43.6
30	9	2004	0.8	0.4	13.1	7.7	7.4	8.9	10.1	8.6	1.4	71.7	56.0	18.1	433.8	31.9	39.4
Average Monthly															412.0	25.2	27.5
Total Monthly															12361.4		
Maximum Monthly																70.6	43.6
Minimum Monthly																	22.8
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	10	2004	0.0	0.2	12.9	7.5	3.2	10.1	10.3	13.6	1.7	76.8	42.0	15.4	368.7	30.3	36.3
2	10	2004	0.0	0.0	11.7	1.3	-1.4	9.5	10.4	18.4	2.3	70.5	51.2	18.6	445.6	29.2	33.8
3	10	2004	0.0	0.0	12.9	-1.2	-4.1	8.1	9.9	16.6	2.3	73.0	27.5	9.5	228.9	28.5	32.3
4	10	2004	4.2	0.7	14.6	6.9	4.2	9.9	10.5	10.8	1.9	78.2	43.3	15.6	374.1	27.9	31.4
5	10	2004	13.4	2.4	14.8	10.0	10.2	11.1	11.0	7.7	1.6	79.1	53.0	16.4	393.0	32.9	35.9
6	10	2004	0.4	1.3	17.8	4.7	0.7	9.4	10.6	12.6	2.7	67.3	52.9	16.0	383.0	38.3	42.4
7	10	2004	0.0	0.0	10.8	7.4	5.4	10.9	11.0	7.2	0.8	87.8	42.6	16.3	391.8	32.0	38.8
8	10	2004	5.4	0.2	12.8	7.7	7.5	10.1	10.9	4.1	0.6	90.6	32.8	16.8	404.2	30.8	36.1
9	10	2004	1.6	2.0	13.6	10.4	10.6	11.4	11.1	6.6	0.7	93.1	36.6	15.5	372.7	33.1	39.2
10	10	2004	0.2	2.2	14.2	10.2	9.6	11.9	11.6	12.2	1.2	86.5	43.8	14.5	349.1	32.4	38.5
11	10	2004	0.0	0.0	16.6	3.1	-0.4	10.5	11.4	15.8	2.7	77.2	31.6	10.7	257.8	30.0	34.6
12	10	2004	0.0	4.8	20.6	9.1	6.1	11.3	11.7	16.3	4.5	56.3	58.7	20.0	480.4	28.8	32.5
13	10	2004	0.0	9.3	25.8	12.8	9.8	13.0	12.3	21.2	8.0	50.9	62.4	28.6	687.2	27.8	30.9
14	10	2004	0.0	11.0	28.2	13.7	12.2	14.1	13.1	20.9	8.4	45.6	105.7	25.1	603.4	26.7	29.4
15	10	2004	2.0	8.4	22.7	14.2	11.2	14.7	13.7	11.4	2.7	64.6	54.8	19.3	462.6	25.6	28.3
16	10	2004	1.4	2.1	13.4	10.8	10.5	13.5	13.9	9.8	1.4	83.2	32.8	9.4	226.6	25.1	27.7
17	10	2004	3.2	0.0	14.5	3.8	0.0	11.8	12.8	17.4	1.8	77.2	38.0	15.4	368.5	24.6	27.3
18	10	2004	0.4	0.0	12.4	7.2	6.7	10.9	12.8	13.8	1.7	78.1	55.7	26.2	628.7	24.3	26.8
19	10	2004	5.2	0.0	17.9	-0.9	-3.4	10.0	11.5	24.1	3.9	61.6	36.5	13.9	333.0	23.8	26.3
20	10	2004	0.0	1.3	16.6	6.1	3.8	11.9	12.4	25.0	3.1	74.3	53.3	13.8	330.1	23.1	25.5
21	10	2004	0.0	1.7	17.6	5.9	2.9	12.6	12.8	24.9	3.0	70.9	35.0	11.8	282.3	22.6	24.8
22	10	2004	0.0	0.4	17.1	3.6	1.3	13.4	13.4	22.0	2.5	81.7	27.7	9.1	218.9	22.0	24.2
23	10	2004	0.0	1.9	17.1	6.6	4.6	13.3	13.9	12.6	2.9	70.6	46.7	17.3	415.7	21.3	23.6
24	10	2004	0.2	6.8	21.8	11.8	10.3	13.9	13.7	19.3	3.2	73.8	47.8	20.1	482.6	20.5	22.9
25	10	2004	0.0	2.8	16.6	9.1	9.1	13.2	14.5	15.6	2.3	77.2	50.6	19.0	457.2	19.7	22.3
26	10	2004	0.0	2.4	20.9	3.8	2.4	13.6	13.5	25.0	3.8	69.0	37.2	13.4	322.3	18.9	21.7
27	10	2004	0.0	1.4	17.6	5.2	3.4	14.7	14.4	19.6	2.3	84.1	30.6	7.4	176.7	18.1	21.0
28	10	2004	0.0	5.6	20.5	10.7	8.1	15.1	14.8	17.4	3.2	70.7	49.5	20.7	496.6	17.5	20.6
29	10	2004	14.6	5.8	19.7	11.9	11.2	14.4	14.8	11.5	1.6	77.8	49.2	15.9	381.9	16.9	20.2
30	10	2004	6.8	1.0	12.6	9.5	10.0	13.7	14.9	10.8	1.3	85.2	51.0	18.3	440.1	21.8	21.0
31	10	2004	0.0	2.1	19.1	5.0	3.0	12.6	13.4	25.4	3.5	71.5	44.6	17.8	428.2	24.1	21.8
Average Monthly																	
Total Monthly																	
Maximum Monthly																	
Minimum Monthly																	
Avg Monthly Temp																	
			59.0	77.7	16.9	7.3	5.4	12.1	12.5	15.8	2.7	74.3		16.4	393.3	25.8	29.0
					28.2					489.3	84.0		105.7		12191.5		
						-1.2	-4.1									38.3	42.4
			12.1													16.9	20.2

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	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 %
1	12	2004	0.0	5.1	21.4	8.8	7.6	17.8	17.2	30.1	5.3	59.7	35.3	14.4	345.7	13.5	15.3
2	12	2004	0.0	9.3	25.9	12.7	11.7	19.6	18.5	30.9	8.4	46.0	85.2	32.7	784.9	13.4	15.3
3	12	2004	0.0	6.7	21.8	11.6	10.0	17.8	18.4	31.4	7.5	33.5	71.8	31.2	748.9	13.1	15.2
4	12	2004	0.0	1.3	19.1	3.5	1.6	18.2	18.2	26.6	4.5	60.3	37.7	11.7	281.9	12.9	15.1
5	12	2004	2.6	1.5	16.3	6.8	5.5	17.1	18.6	13.3	3.0	75.4	48.4	17.4	416.4	12.7	14.9
6	12	2004	0.0	3.4	18.8	8.0	7.1	15.7	16.8	26.5	4.2	63.5	29.1	10.9	262.1	12.6	14.9
7	12	2004	1.2	3.4	25.2	1.5	-0.5	15.8	17.0	23.9	5.5	68.8	45.1	16.9	405.9	12.5	14.8
8	12	2004	0.0	4.5	20.0	9.0	8.8	17.7	17.6	29.1	4.5	66.6	38.8	11.6	277.2	12.4	14.8
9	12	2004	4.4	5.2	19.1	11.2	8.7	19.0	18.3	14.1	2.7	72.8	45.0	13.3	318.3	12.4	15.0
10	12	2004	0.0	2.8	21.9	3.7	0.7	15.1	16.5	21.1	3.0	65.5	82.0	23.4	562.7	12.5	15.1
11	12	2004	0.0	1.1	18.1	4.0	2.8	15.4	16.3	27.2	4.6	68.2	34.6	9.5	228.8	12.4	15.0
12	12	2004	0.0	1.7	22.4	1.0	-1.4	16.1	16.6	30.2	5.2	60.5	45.6	14.5	348.2	12.3	14.9
13	12	2004	0.0	7.0	25.1	8.9	6.5	18.6	17.9	29.2	8.2	52.4	79.2	22.5	539.0	12.2	14.8
14	12	2004	0.0	5.9	19.0	12.7	10.2	19.0	18.6	22.3	3.8	63.8	53.0	17.1	411.2	12.0	14.6
15	12	2004	5.2	6.5	23.1	9.9	8.6	19.1	18.7	17.5	4.4	68.5	44.3	14.8	355.7	11.9	14.4
16	12	2004	4.6	4.9	17.2	12.6	11.9	17.4	18.6	10.9	2.2	91.2	29.8	8.4	201.3	12.2	14.9
17	12	2004	0.0	5.0	21.0	8.9	7.4	15.5	17.3	26.2	4.7	58.1	64.5	23.6	565.9	12.6	15.4
18	12	2004	0.6	0.1	15.3	4.8	2.9	14.9	17.0	13.7	2.8	75.1	44.7	15.2	364.6	12.5	15.2
19	12	2004	0.0	0.2	17.2	3.2	0.1	13.3	15.3	25.4	4.3	60.4	52.8	19.1	459.1	12.4	15.0
20	12	2004	0.0	0.0	17.7	0.4	-2.3	14.8	15.4	18.1	3.0	70.6	28.5	8.6	206.5	12.3	14.8
21	12	2004	0.0	6.4	21.5	11.3	10.6	16.1	16.3	28.5	5.3	64.8	53.0	19.3	463.4	12.2	14.8
22	12	2004	0.0	4.4	20.0	8.8	5.7	15.9	17.0	22.7	5.7	53.1	45.8	16.3	391.5	12.0	14.6
23	12	2004	7.6	5.6	22.1	9.1	5.9	17.2	17.2	20.2	3.6	65.0	41.8	12.1	289.9	12.3	15.1
24	12	2004	2.2	2.4	16.6	8.3	7.4	16.6	17.5	10.7	1.4	88.2	30.5	8.9	212.7	13.1	16.5
25	12	2004	0.0	3.7	16.8	10.6	10.2	15.6	16.8	11.5	1.6	87.2	31.5	8.3	199.4	12.9	16.2
26	12	2004	0.0	5.3	20.7	9.8	8.6	15.6	16.2	21.4	4.7	65.2	59.9	20.2	485.5	12.8	15.9
27	12	2004	0.0	2.8	20.1	5.5	2.2	16.0	16.1	31.7	4.7	63.3	42.0	11.2	267.8	12.7	15.7
28	12	2004	0.0	4.1	23.1	5.0	1.7	16.9	17.4	22.7	6.0	63.1	46.7	16.7	401.6	12.5	15.5
29	12	2004	0.4	9.6	23.3	16.0	16.5	18.5	18.2	17.7	4.3	65.0	58.1	23.6	565.9	12.3	15.2
30	12	2004	8.2	9.9	24.4	15.4	15.2	20.2	18.5	14.6	2.4	83.2	42.4	13.8	331.9	12.5	15.4
31	12	2004	6.0	7.5	22.5	12.4	9.6	17.7	18.1	20.6	4.0	68.1	40.1	13.3	318.4	13.0	15.8
Average Monthly																	
Total Monthly																	
43.0 137.1 20.5 8.2 6.5 16.9 17.3 22.2 4.4 66.0 387.5 12.6 12012.3																	
Maximum Monthly																	
25.9 85.2																	
Minimum Monthly																	
0.4 -2.3																	
Avg Monthly Temp																	
14.4																	