

Marlborough Research Centre Blenheim																			
Daily weather data is summarised at 9am																			
Date	Month	Year	Rain Daily	Air Dry 9am	Air Wet 9am	Air RH Daily	Air Max Daily	Air Min Daily	Grass Min Daily	10cm 9am	Soil 20cm 9am	Soil 30cm 9am	Soil 100cm 9am	Solar Energy Daily	Windrun Daily	Penman ET	Soil Moist 5-35cm	Sun Daily hours	Growing Degree Days >10°C
1	1	2008	0.0	14.3	11.7	72.7	19.9	7.6	3.8	17.9	18.7	19.5	17.4	32.2	205.7	5.2	24.3	14	3.7
2	1	2008	0.0	19.1	15.9	78.9	24.6	10.2	5.6	19.2	19.5	20.1	17.5	32.0	201.8	5.4	23.7	14.3	7.4
3	1	2008	0.0	19.6	15.6	64.0	31.9	10.5	7.8	20.5	20.9	21.2	17.6	27.4	259.6	5.5	23.0	11.2	11.2
4	1	2008	0.0	14.2	12.4	80.5	17.5	13.1	9.9	20.4	21.8	22.1	17.8	16.5	216.2	2.7	22.4	1.2	5.3
5	1	2008	0.0	17.3	14.8	63.4	28.1	9.2	6.1	18.8	19.4	20.2	18.0	30.3	331.2	6.3	21.4	13.2	8.6
6	1	2008	0.0	21.7	18.1	66.1	27.3	16.7	13.7	21.8	22.0	21.9	18.1	18.2	371.0	4.3	20.7	2.1	12.0
7	1	2008	1.8	20.7	18.4	82.6	26.2	19.5	18.6	21.9	22.3	22.1	18.2	11.7	291.3	2.3	20.4	1	12.9
8	1	2008	1.2	15.0	13.8	90.0	24.3	14.6	14.2	20.0	21.2	21.5	18.3	13.8	197.0	2.2	20.3	1.1	9.4
9	1	2008	0.0	16.9	15.9	76.2	28.2	14.6	14.7	19.8	20.2	20.4	18.3	28.8	256.9	5.2	20.1	8.9	11.4
10	1	2008	0.0	18.1	14.9	75.0	18.3	15.8	14.3	21.0	21.6	21.7	18.3	19.9	307.9	3.4	19.7	5.6	7.1
11	1	2008	0.0	13.5	11.2	72.3	19.6	6.7	4.8	17.9	18.9	19.9	18.4	31.7	217.1	5.1	19.2	13	3.1
12	1	2008	0.0	19.8	15.6	60.7	27.7	9.9	7.3	19.3	19.9	20.6	18.4	31.9	421.9	7.0	19.0	14.5	8.8
13	1	2008	0.0	22.8	18.2	69.5	29.1	15.3	11.6	21.8	21.8	21.9	18.4	30.0	370.4	6.3	18.6	14.3	12.2
14	1	2008	0.0	22.2	18.2	62.6	27.6	19.3	17.4	23.1	23.4	23.2	18.5	30.2	469.0	6.8	18.3	10.8	13.4
15	1	2008	0.0	22.9	19.2	77.7	29.9	19.0	17.3	24.1	23.8	23.5	18.7	30.7	254.0	5.6	18.0	11.4	14.4
16	1	2008	0.0	19.9	17.6	80.8	23.2	17.1	16.8	24.7	24.8	24.5	18.8	31.6	231.2	5.3	17.7	13.1	10.2
17	1	2008	0.6	21.2	17.2	58.3	32.6	12.9	9.1	22.8	23.6	24.1	19.1	29.9	321.7	6.5	17.5	12.9	12.8
18	1	2008	0.0	18.8	14.7	73.1	21.5	15.5	13.6	23.1	24.1	24.5	19.3	31.0	336.2	5.4	17.3	11.5	8.5
19	1	2008	0.0	16.8	13.3	70.4	21.3	10.9	7.0	21.5	22.8	23.6	19.4	30.7	288.2	5.4	17.1	13.6	6.1
20	1	2008	0.0	15.7	12.9	74.7	23.8	12.7	10.0	21.7	22.9	23.4	19.5	28.9	219.3	5.1	17.0	9.9	8.3
21	1	2008	2.2	20.9	17.2	81.8	27.8	14.1	12.7	22.9	23.5	23.8	19.5	14.3	150.1	2.7	16.9	2.9	10.9
22	1	2008	13.6	24.0	22.2	87.0	25.3	18.8	17.0	24.1	23.9	23.7	19.6	13.6	309.0	2.5	17.3	3.7	12.1
23	1	2008	0.0	16.9	15.4	81.9	24.0	14.9	14.8	20.3	21.2	21.9	19.7	30.2	238.8	5.1	17.8	11.5	9.4
24	1	2008	0.0	17.8	15.1	78.6	21.9	13.7	11.0	21.0	21.6	22.1	19.7	30.0	249.3	5.0	18.1	12.2	7.8
25	1	2008	0.0	17.4	15.0	83.5	23.0	11.6	9.5	19.9	21.2	22.2	19.6	22.9	222.5	3.8	18.2	10.1	7.3
26	1	2008	0.0	16.6	14.9	79.7	22.4	14.6	13.5	20.7	21.7	22.2	19.6	16.2	215.2	2.7	18.0	3.5	8.5
27	1	2008	0.0	16.5	13.8	79.8	21.2	9.8	7.0	19.0	19.9	20.9	19.7	16.3	228.0	2.8	17.9	4.3	5.5
28	1	2008	0.0	16.5	14.2	65.1	26.7	11.1	8.2	18.7	19.5	20.3	19.6	29.9	281.2	5.8	17.8	12.7	8.9
29	1	2008	0.0	20.6	16.4	79.7	26.7	14.3	10.1	21.0	21.6	22.0	19.5	28.9	237.5	4.9	17.7	13.8	10.5
30	1	2008	0.0	16.5	15.9	84.8	24.4	11.7	9.2	20.7	21.9	22.6	19.5	16.2	236.1	2.8	17.4	3.9	8.0
31	1	2008	0.0	18.7	16.5	61.2	29.3	12.6	11.1	20.2	21.0	21.7	19.6	29.4	258.0	5.9	17.3	13.9	10.9
Means				18.5	15.7	74.6	25.0	13.5	11.2	21.0	21.6	22.0	18.8	25.3	270.8	4.7	19.0		
Totals			19.4											785.1	8393.3	145.0		290.1	286.6

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Date	Month	Year	Rain Daily	Air Rain	Air Wet	RH Daily	Air Max	Air Min	Grass Min	10cm 9am	20cm 9am	30cm 9am	100cm 9am	Solar Energy Daily	Windrun Daily	Penman ET	Soil Moist 5-35cm	Sun Daily	Growing Degree Days									
			mm	mm	°C	%	°C	°C	°C	°C	°C	°C	°C	kJ/m2	km	mm	%	hours	>10°C									
1	2	2008	0.0	21.3	16.3	64.5	28.8	13.9	10.3	21.4	22.2	22.7	19.6	27.6	339.6	5.7	17.1	12.2	11.3									
2	2	2008	0.0	16.3	12.8	75.8	20.6	15.1	14.9	22.0	23.2	23.5	19.6	19.4	243.4	3.4	16.9	3.5	7.8									
3	2	2008	0.0	15.9	13.6	79.5	26.1	10.4	8.7	20.5	21.8	22.5	19.7	28.3	178.8	4.8	16.8	13	8.3									
4	2	2008	7.6	18.6	16.6	79.8	21.4	13.1	10.9	21.9	23.1	23.5	19.8	11.3	238.7	2.0	16.7	0.7	7.2									
5	2	2008	0.0	15.2	11.7	68.3	19.4	10.2	6.9	16.4	18.8	20.7	19.8	29.8	327.6	5.1	16.7	13.3	4.8									
6	2	2008	0.0	11.9	10.0	75.4	18.7	7.0	5.8	16.1	18.2	19.9	19.8	28.7	269.7	4.5	16.7	13.3	2.8									
7	2	2008	0.0	13.0	11.1	79	19.9	6.8	5.1	16.1	18.0	19.7	19.7	28.2	239.0	4.4	16.8	13.5	3.3									
8	2	2008	0.0	13.6	11.9	74.4	24.9	7.5	5.2	17.0	18.7	20.1	19.6	28.9	206.1	5.0	16.8	13.5	6.2									
9	2	2008	1.0	18.1	15.8	69.9	26.2	10.6	7.5	19.3	20.5	21.3	19.5	18.4	232.9	3.7	16.7	7.5	8.4									
10	2	2008	5.4	17.4	16.9	83.1	25.4	17.4	16.4	20.8	21.7	21.8	19.5	13.5	185.1	2.5	16.7	2.8	11.4									
11	2	2008	0.0	22.2	19.7	74.3	27.5	17.1	15.3	20.7	21.0	21.2	19.5	26.9	279.2	5.0	16.9	11.1	12.3									
12	2	2008	4.2	15.7	15.0	89.5	20.1	12.0	9.6	19.0	20.3	21.3	19.5	12.5	126.0	1.9	16.8	1.1	6.1									
13	2	2008	0.0	16.3	15.1	71.5	25.0	14.2	13.3	18.7	19.6	20.2	19.5	24.3	298.3	4.7	16.9	8.9	9.6									
14	2	2008	0.8	19.1	15.5	72.4	25.7	16.3	15.0	18.9	20.1	20.8	19.5	18.8	315.5	3.8	16.9	3.5	11.0									
15	2	2008	6.4	16.6	13.5	83.5	20.6	12.9	11.6	18.5	20.0	20.8	19.4	15.4	221.3	2.4	16.8	5.2	6.8									
16	2	2008	0.4	10.8	10.1	84.3	19.5	7.5	5.3	14.6	17.0	18.8	19.4	13.7	175.9	2.2	16.7	1.8	3.5									
17	2	2008	0.0	14.3	12.9	72.5	27.1	10.4	7.8	16.2	17.2	18.2	19.3	26.0	224.7	4.7	16.8	11.6	8.7									
18	2	2008	0.0	15.1	14.0	82.6	17.1	14.2	14.0	18.6	19.7	20.1	19.2	7.5	159.1	1.3	16.8	0	5.6									
19	2	2008	0.0	15.0	12.8	80.7	19.7	10.7	6.7	16.7	18.0	18.8	19.1	25.6	218.7	4.0	17.0	11.8	5.2									
20	2	2008	0.0	14.3	12.9	76.4	26.8	9.6	8.2	16.8	18.3	19.4	19.1	25.9	185.1	4.5	17.1	12.8	8.2									
21	2	2008	0.0	18.8	15.9	74.6	29.1	13.1	9.9	19.0	20.1	20.7	19.0	25.8	200.1	4.7	16.8	12.6	11.1									
22	2	2008	0.2	16.7	15.9	84.7	23.2	13.9	11.5	20.4	21.3	21.7	18.7	21.1	161.5	3.5	16.8	7.2	8.6									
23	2	2008	0.0	18.1	17.0	75.8	23.6	16.2	15.8	21.2	21.9	22.0	18.7	12.0	237.3	2.5	16.7	0.8	9.9									
24	2	2008	0.0	21.2	18.8	74.9	24.8	18.0	17.1	21.4	21.8	21.8	19.3	12.9	326.3	2.8	16.7	5	11.4									
25	2	2008	0.0	19.8	14.7	58.4	24.9	13.1	7.8	18.8	20.2	21.1	18.9	25.6	392.8	5.5	16.6	12.6	9.0									
26	2	2008	0.0	15.5	12.6	80.2	22.5	9.9	6.3	18.4	20.1	21.1	19.4	24.5	227.5	4.1	16.4	11.3	6.2									
27	2	2008	0.0	14.2	12.1	76.7	24.0	9.5	7.7	18.4	20.2	21.3	19.4	23.5	206.1	4.0	16.3	11.5	6.8									
28	2	2008	0.0	12.6	11.7	63.4	26.0	9.1	7.2	18.2	20.2	21.2	19.4	24.4	237.9	4.7	16.2	10.4	7.5									
29	2	2008	0.0	17.6	14.5	65.4	23.6	12.4	10.1	19.5	20.8	21.5	19.4	17.1	344.2	3.9	16.1	5.4	8.0									
Means																												
Totals			26.0				23.5	12.1	10.1	18.8	20.1	20.9	19.4	21.3	241.3	3.8	16.7	237.9	227.1									

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Date	Month	Year	Rain Daily	Air Rain	Air Wet	RH Daily	Air Max	Air Min	Grass Min	10cm 9am	20cm 9am	30cm 9am	100cm 9am	Solar Energy Daily	Windrun Daily	Penman ET	Soil Moist 5-35cm	Sun Daily	Growing Degree Days							
			mm	°C	°C	%	°C	°C	°C	°C	°C	°C	°C	kJ/m2	km	mm	%	hours	>10°C							
1	3	2008	20.0	20.3	17.6	87.9	21.2	17.4	17.5	21.2	21.8	21.7	19.5	4.2	209.1	0.8	17.0	0	9.3							
2	3	2008	4.6	19.0	14.9	77.6	24.8	15.7	12.1	17.9	19.4	20.2	19.5	18.5	263.2	3.3	19.5	9.1	10.3							
3	3	2008	0.0	12.7	10.8	69.3	16.5	11.1	10.5	16.6	18.4	19.5	19.5	11.7	309.7	2.4	20.2	0.6	3.8							
4	3	2008	0.2	13.0	10.0	79.4	16.8	10.7	9.6	14.3	16.0	17.5	19.4	9.5	254.5	1.7	20.4	0.1	3.8							
5	3	2008	0.0	12.6	10.7	72.5	21.7	11.9	11.4	14.8	16.0	16.9	19.2	18.4	173.4	3.2	21.4	6.7	6.8							
6	3	2008	0.0	13.4	10.7	82.4	16.6	11.9	10.7	16.0	17.1	17.9	19.0	9.8	169.4	1.6	21.4	2.2	4.3							
7	3	2008	0.0	15.7	12.9	62.4	23.2	9.6	7.4	14.2	15.6	16.9	18.8	23.5	353.9	4.7	21.0	12.4	6.4							
8	3	2008	0.0	13.6	11.0	60.7	25.9	8.6	4.0	14.4	16.3	17.5	18.4	23.0	323.9	5	20.4	12	7.2							
9	3	2008	0.0	20.3	16.5	70.6	26.4	13.3	14.9	18.1	18.6	18.9	18.5	21.5	315.2	4.1	19.8	11.9	9.8							
10	3	2008	0.0	13.0	11.5	76.7	20.5	10.9	8.6	17.4	18.8	19.4	18.6	18.7	208.8	3.1	19.5	8.3	5.7							
11	3	2008	0.0	16.8	11.8	57.5	24.1	8.5	3.8	15.8	17.5	18.7	18.6	14.0	401.3	3.8	19.5	5.9	6.3							
12	3	2008	0.0	18.9	13.8	73	23.9	16.1	12.7	17.2	18.0	18.4	18.6	21.2	257.0	3.9	19.1	10.8	10.0							
13	3	2008	0.0	14.1	12.8	83.2	20.2	13.2	13.0	18.2	19.3	19.5	18.5	14.4	150.2	2.3	18.7	3.9	6.7							
14	3	2008	0.0	14.2	13.1	80.8	22.4	11.6	10.0	17.4	18.5	19.2	18.5	18.6	201.3	3.1	18.3	8.5	7.0							
15	3	2008	0.0	13.7	12.4	76.3	27.0	11.2	10.0	17.5	18.9	19.5	18.6	20.8	202.8	3.7	18.2	11.2	9.1							
16	3	2008	0.0	17.4	14.3	71.4	22.6	11.2	8.8	17.9	19.2	19.9	18.6	20.5	247.5	3.7	17.8	11.3	6.9							
17	3	2008	0.0	12.5	11.1	82.4	22.2	8.6	4.7	17.2	19.0	19.8	18.6	20.2	156.0	3.2	17.5	11.2	5.4							
18	3	2008	0.0	13.9	13.1	83.8	23.6	10.3	8.4	17.3	18.9	19.8	18.7	20.0	197.0	3.3	17.3	11.4	7.0							
19	3	2008	0.0	16.5	15.0	76	27.1	12.7	9.9	17.7	19.1	19.9	18.7	20.3	285.3	3.8	17.2	11.7	9.9							
20	3	2008	0.0	15.0	14.2	81.4	24.4	11.4	9.6	18.0	19.5	20.2	18.7	19.7	165.9	3.3	17.0	11.6	7.9							
21	3	2008	0.0	14.8	13.7	73.2	27.0	10.9	7.5	17.3	19.1	20.1	18.8	19.5	289.5	3.8	16.8	10.6	9.0							
22	3	2008	0.0	15.7	13.5	76.6	19.1	14.5	11.2	18.9	19.9	20.3	18.8	8.6	179.8	1.6	16.6	0.2	6.8							
23	3	2008	0.0	13.0	11.5	82.9	19.2	11.6	10.4	17.4	18.7	19.4	18.9	17.0	172.2	2.6	16.5	7.2	5.4							
24	3	2008	0.0	11.4	10.7	86.8	20.6	8.3	5.7	15.6	17.6	18.9	18.8	19.0	220.3	2.9	16.3	11.1	4.5							
25	3	2008	0.0	12.1	11.8	86.1	21.3	9.0	7.7	15.7	17.6	18.7	17.8	18.4	201.8	2.9	16.3	11.4	5.1							
26	3	2008	0.0	13.1	12.4	84.7	21.6	9.8	8.0	15.9	17.6	18.6	18.6	18.6	209.1	3	16.2	11.4	5.7							
27	3	2008	0.0	15.5	14.0	79.3	24.3	10.9	9.8	16.5	18.1	18.8	18.7	16.0	227.3	2.9	16.1	8.1	7.6							
28	3	2008	0.0	14.4	13.7	76.9	24.4	11.1	8.1	16.6	18.3	19.1	18.7	11.5	254.8	2.4	16.2	4.6	7.8							
29	3	2008	26.2	18.2	17.6	92.7	24.2	14.0	14.2	19.6	20.0	19.8	18.6	8.1	130.6	1.3	17.7	0.7	9.1							
30	3	2008	0.0	16.1	15.9	92.2	19.5	15.8	15.4	18.3	19.1	19.4	18.6	8.5	137.5	1.3	23.6	0.5	7.7							
31	3	2008	0.2	14.3	14.1	89	22.5	14.0	13.2	17.1	18.2	18.7	18.6	10.6	162.9	1.7	24.9	3	8.2							
Means																										
Totals			51.2		15.0	13.1	78.2	22.4	11.8	17.0	18.4	19.1	18.7	16.3	226.8	2.9	18.7	229.6	220.2							
														504.4	7031.2	90.4										

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			mm	mm	°C	%	°C	°C	°C	°C	°C	°C	°C	kJ/m2	km	mm	%	hours	>10°C							
1	4	2008	0.0	16.0	15.4	71.2	24.8	13.0	10.6	16.0	17.5	18.4	18.6	16.5	261.1	3.2	24.9	9.9	8.9							
2	4	2008	0.0	11.7	10.8	74.7	18.7	10.0	8.4	14.9	16.6	17.7	18.6	16.7	169.1	2.7	24.3	9.1	4.3							
3	4	2008	0.0	9.1	8.3	65.6	21.3	6.6	3.3	13.5	15.7	17.1	18.5	17.2	326.3	3.5	23.9	10.7	4.0							
4	4	2008	3.0	15.4	11.9	75.1	22.6	9.0	9.2	14.4	15.8	16.8	18.4	16.1	314.4	3.2	23.5	8.8	5.8							
5	4	2008	7.8	15.7	15.4	95.4	15.7	15.1	14.7	17.0	17.6	17.8	18.2	5.1	134.8	0.7	23.8	0	5.4							
6	4	2008	0.2	12.4	12.1	88.8	17.4	10.7	9.2	14.9	16.0	16.8	18.2	10.1	170.6	1.5	24.6	1.9	4.0							
7	4	2008	7.0	14.3	12.8	86.6	18.0	12.0	9.7	15.0	15.7	16.4	18.1	8.7	189.5	1.4	26.0	4.4	5.0							
8	4	2008	0.0	12.1	11.7	85.5	17.7	10.6	8.6	13.7	14.8	15.7	18.0	8.2	234.2	1.3	27.9	1	4.2							
9	4	2008	0.0	10.2	8.7	82.4	18.6	5.5	3.6	11.3	12.5	14.1	17.8	15.5	200.1	2.3	28.5	10.5	2.0							
10	4	2008	0.0	10.7	9.0	86.4	19.1	5.7	3.4	11.3	12.3	13.8	17.7	15.0	170.7	2.2	28.6	10.7	2.4							
11	4	2008	0.0	10.1	9.8	89.3	18.5	6.5	2.5	11.2	12.6	14.0	17.5	12.3	120.3	1.8	28.5	6.3	2.5							
12	4	2008	0.0	14.9	13.8	87.6	18.6	9.9	9.6	15.1	14.9	15.0	17.3	9.4	183.8	1.4	28.1	2.2	4.2							
13	4	2008	0.0	11.5	10.3	85.6	19.6	6.7	4.8	12.3	13.1	14.4	17.2	14.1	201.4	2.1	26.3	10.7	3.2							
14	4	2008	47.0	11.0	9.7	91	18.9	8.1	6.1	11.8	13.0	14.2	17.1	8.6	114.7	1.3	30.5	4.4	3.5							
15	4	2008	3.8	15.4	15.4	92.8	21.1	10.8	12.1	15.3	15.1	15.1	17.0	8.3	146.9	1.3	37.9	2.2	5.9							
16	4	2008	1.2	14.3	13.4	92.6	16.5	13.3	13.2	15.5	16.1	16.2	16.9	4.5	129.6	0.7	37.1	0.1	4.9							
17	4	2008	5.2	13.2	13.0	90.1	16.3	12.5	11.8	14.8	15.6	15.9	16.9	3.5	200.1	0.6	37.6	0	4.4							
18	4	2008	0.0	16.5	12.3	83.5	20.6	10.8	8.4	13.2	14.1	15.0	16.9	10.9	202.3	1.6	37.1	6.4	5.7							
19	4	2008	0.4	7.8	6.9	80.3	13.3	4.0	0.9	9.9	11.9	13.7	16.9	9.6	195.3	1.3	36.9	5	0.0							
20	4	2008	0.0	6.0	4.2	78.8	15.4	1.1	-1.0	7.2	9.4	11.7	16.8	14.0	190.5	1.9	36.4	10.2	0.0							
21	4	2008	0.0	8.8	7.2	67.8	19.7	2.3	0.8	8.1	9.4	11.2	16.5	13.6	255.7	2.6	35.9	10.4	1.0							
22	4	2008	0.0	12.2	11.0	83.3	13.3	8.5	6.8	11.1	11.3	12.0	16.2	7.0	244.1	1.1	35.4	0.4	0.9							
23	4	2008	0.0	12.8	9.7	81.6	19.8	6.4	3.7	10.0	10.7	11.9	16.0	13.3	172.5	2.1	35.0	10.2	3.1							
24	4	2008	0.0	12.0	10.2	86.1	19.2	8.5	6.1	11.5	12.2	12.8	15.9	12.8	174.8	1.8	34.5	10.1	3.8							
25	4	2008	0.0	8.4	7.7	88.9	17.3	5.4	2.9	10.0	11.2	12.5	15.7	9.5	165.4	1.4	34.0	4.5	1.3							
26	4	2008	0.0	12.3	10.6	86.3	19.1	8.2	6.9	11.7	12.3	12.7	15.7	11.5	185.7	1.8	33.5	7.6	3.7							
27	4	2008	2.2	13.4	12.0	96.2	16.9	9.5	6.3	12.6	12.8	13.1	15.6	5.0	161.5	0.7	33.4	0.1	3.2							
28	4	2008	0.6	17.2	16.2	88.5	22.6	13.3	12.5	14.4	14.3	14.1	15.5	11.0	243.1	1.9	33.9	8.9	8.0							
29	4	2008	7.6	14.8	14.4	90.3	22.3	12.5	10.4	14.5	14.6	14.6	15.5	10.2	158.0	1.6	34.3	6	7.4							
30	4	2008	27.0	16.8	14.0	86.8	19.3	12.7	10.2	14.6	15.0	15.1	15.6	9.6	196.2	1.5	37.7	5.2	6.0							
Means																										
Totals			113.0		12.6	11.3	84.6	18.7	7.2	12.9	13.8	14.7	17.0	10.9	193.8	1.8	31.3	177.9	118.6							
														327.6	5812.7	52.5										

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

Date	Month	Year	Rain		Air		RH		Air		Grass		Soil Temperatures			Solar		Windrun		Penman		Soil		Growing	
			Daily	mm	Dry	Wet	Daily	Wet	Daily	Wet	Min	Daily	Min	Daily	10cm	20cm	30cm	100cm	Daily	Daily	ET	mm	Moist	Sun	Daily
1	5	2008	0.0	8.9	8.9	8.6	89.7	8.0	6.3	12.1	13.4	14.3	15.7	6.7	143.5	2.5	40.3	2.5	1.0	5.9	0.2	39.1	5.9	0.0	0.0
2	5	2008	1.8	10.0	8.4	8.4	84.1	4.9	1.8	9.8	11.6	13.1	15.7	8.7	218.2	9.1	39.1	9.1	0.0	9	0.0	38.4	9	0.0	0.0
3	5	2008	0.0	4.9	3.9	3.9	83.6	0.7	-2.0	7.5	9.9	11.6	15.6	12.1	137.6	1.5	38.4	1.5	0.0	1.9	0.0	37.8	1.9	0.0	0.0
4	5	2008	0.0	2.4	1.7	1.7	79.2	0.4	-1.9	6.5	8.9	10.7	15.5	6.5	221.6	1.1	37.8	1.1	0.0	0.7	0.0	37.3	0.7	0.0	0.0
5	5	2008	0.0	9.0	7.2	7.2	88.3	2.2	1.8	8.6	9.6	10.5	15.3	5.1	227.0	0.7	37.3	0.7	0.0	1.4	0.0	36.9	1.4	0.0	0.0
6	5	2008	0.0	3.9	3.0	3.0	87	0.4	-1.0	5.8	7.9	9.6	15.0	11.4	197.8	1.9	36.9	1.9	0.0	1.1	0.0	36.5	1.1	0.0	0.0
7	5	2008	0.0	4.0	3.3	3.3	80.3	0.9	-1.0	5.6	7.5	9.0	14.8	11.5	219.1	1.9	36.5	1.9	0.0	1.1	0.0	36.0	1.1	0.0	0.0
8	5	2008	0.0	13.2	11.1	11.1	89.2	3.9	3.9	10.1	10.1	10.3	14.5	7.9	184.4	1.1	36.0	1.1	0.0	1.1	0.0	35.8	1.1	0.0	0.0
9	5	2008	1.4	7.5	6.8	6.8	85.2	4.9	1.3	8.4	9.7	10.6	14.4	6.7	151.8	1.1	35.8	1.1	0.0	1.1	0.0	35.9	1.1	0.0	0.0
10	5	2008	0.0	11.1	10.4	10.4	92	7.4	7.0	11.1	11.4	11.5	14.2	7.8	127.7	1.0	35.9	1.0	0.0	1.0	0.0	35.7	1.0	0.0	0.0
11	5	2008	0.0	10.3	9.4	9.4	88	5.0	1.6	9.2	10.4	11.3	14.2	7.5	160.4	1.0	35.7	1.0	0.0	1.0	0.0	35.4	1.0	0.0	0.0
12	5	2008	0.0	4.2	3.4	3.4	85.9	0.2	-2.5	6.8	9.1	10.6	14.2	10.6	196.4	1.3	35.4	1.3	0.0	1.3	0.0	33.7	1.3	0.0	0.0
13	5	2008	0.0	4.3	3.2	3.2	84.5	0.8	-1.0	5.7	7.8	9.3	14.1	10.1	154.3	1.4	33.7	1.4	0.0	1.4	0.0	34.8	1.4	0.0	0.0
14	5	2008	0.0	11.4	9.4	9.4	88.4	4.1	0.1	7.2	8.6	9.6	14.0	9.2	216.6	1.3	34.8	1.3	0.0	1.3	0.0	34.8	1.3	0.0	0.0
15	5	2008	0.0	6.6	5.8	5.8	89.6	3.3	1.7	6.8	8.3	9.4	13.8	9.8	193.8	1.3	34.8	1.3	0.0	1.3	0.0	34.8	1.3	0.0	0.0
16	5	2008	0.0	6.9	6.1	6.1	89	4.1	1.2	6.9	8.4	9.4	13.7	9.9	153.3	1.3	34.6	1.3	0.0	1.3	0.0	34.6	1.3	0.0	0.0
17	5	2008	0.0	6.8	6.3	6.3	88.8	2.1	-1.5	6.6	8.3	9.4	13.6	9.7	155.3	1.2	34.5	1.2	0.0	1.2	0.0	34.5	1.2	0.0	0.0
18	5	2008	0.0	6.6	5.5	5.5	84.1	3.0	-1.2	6.1	7.8	9.0	13.5	9.5	171.8	1.4	34.3	1.4	0.0	1.4	0.0	34.3	1.4	0.0	0.0
19	5	2008	0.0	8.3	6.7	6.7	86.4	4.7	0.4	6.7	8.0	9.0	13.4	8.4	215.3	1.2	34.0	1.2	0.0	1.2	0.0	34.0	1.2	0.0	0.0
20	5	2008	0.0	7.9	6.8	6.8	90.6	4.5	1.3	7.6	8.4	9.1	13.2	6.3	147.9	0.8	34.0	0.8	0.0	0.8	0.0	34.0	0.8	0.0	0.0
21	5	2008	0.0	7.5	6.9	6.9	89.7	4.6	0.7	7.8	8.8	9.5	13.1	8.2	166.4	1.1	33.8	1.1	0.0	1.1	0.0	33.8	1.1	0.0	0.0
22	5	2008	0.0	5.9	5.1	5.1	88.1	4.3	0.6	6.9	8.3	9.3	13.1	8.1	127.4	1.1	33.8	1.1	0.0	1.1	0.0	33.8	1.1	0.0	0.0
23	5	2008	0.8	7.4	7.0	7.0	95.2	5.8	4.1	8.7	9.3	9.7	13.0	3.2	83.4	0.4	33.7	0.4	0.0	0.4	0.0	33.7	0.4	0.0	0.0
24	5	2008	0.0	7.6	7.0	7.0	89.4	6.4	3.7	9.0	9.7	10.1	12.9	6.0	182.8	0.8	33.7	0.8	0.0	0.8	0.0	33.7	0.8	0.0	0.0
25	5	2008	0.0	2.6	2.3	2.3	87.2	1.0	-1.1	6.7	8.4	9.6	12.9	7.3	244.1	1.0	33.5	1.0	0.0	1.0	0.0	33.5	1.0	0.0	0.0
26	5	2008	0.0	4.7	4.2	4.2	85	2.3	-1.6	6.7	8.3	9.2	12.9	8.3	192.2	1.1	33.5	1.1	0.0	1.1	0.0	33.5	1.1	0.0	0.0
27	5	2008	0.0	4.5	3.3	3.3	87.2	1.5	-1.2	6.1	7.4	8.4	12.8	6.9	187.4	0.9	33.4	0.9	0.0	0.9	0.0	33.4	0.9	0.0	0.0
28	5	2008	0.0	2.7	1.8	1.8	85.8	-0.4	-3.1	4.3	6.4	7.8	12.7	8.7	175.9	1.1	33.3	1.1	0.0	1.1	0.0	33.3	1.1	0.0	0.0
29	5	2008	0.0	3.9	2.8	2.8	85.4	0.8	-1.8	4.0	6.0	7.3	12.6	8.7	183.9	1.1	33.2	1.1	0.0	1.1	0.0	33.2	1.1	0.0	0.0
30	5	2008	0.0	3.5	2.4	2.4	84.6	0.1	-1.9	3.9	6.0	7.2	12.4	8.8	219.5	1.2	33.0	1.2	0.0	1.2	0.0	33.0	1.2	0.0	0.0
31	5	2008	0.0	3.8	2.6	2.6	81.6	1.5	-0.8	3.8	5.7	6.9	12.3	8.6	217.6	1.3	32.9	1.3	0.0	1.3	0.0	32.9	1.3	0.0	0.0
Means				6.5	5.6	5.6	86.9	3.0	0.4	7.2	8.7	9.7	13.8	8.3	179.8	1.1	35.1	1.1		1.1		35.1	1.1		
Totals			4.0											258.0	5574.4	35.2				200.9					11.6

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

Date	Month	Year	Rain Daily	Air Wet 9am	Air Dry 9am	RH Daily	Air Max Daily	Air Min Daily	Grass Min Daily	10cm 9am	20cm 9am	30cm 9am	100cm 9am	Solar Energy Daily	Windrun Daily	Penman ET mm	Soil Moist 5-35cm %	Sun Daily hours	Growing Degree Days >10°C
1	6	2008	1.6	6.8	5.4	90.3	14.7	3.4	0.8	5.4	6.9	7.2	12.1	3.8	133.7	0.5	33	0.8	0.0
2	6	2008	0.0	7.1	6.8	89.6	15.5	4.3	1.6	6.9	7.4	7.8	12.0	6.4	166.5	0.8	33	5	0.0
3	6	2008	0.4	4.6	3.9	76.2	17.0	2.6	-0.3	6.3	7.7	8.1	11.9	7.5	281.4	1.4	33	7.3	0.0
4	6	2008	0.0	5.0	4.5	81.6	13.6	2.6	-0.7	6.4	8.0	8.5	11.8	8.4	184.4	1.1	32.9	8.7	0.0
5	6	2008	0.0	2.0	1.2	82.1	12.0	-0.5	-3.3	4.2	6.3	7.4	11.8	5.2	238.3	0.8	33	5.6	0.0
6	6	2008	0.0	12.1	9.1	61.8	17.1	1.0	-1.4	5.3	6.0	6.7	11.7	8.4	510.8	2.7	32.8	8.8	0.0
7	6	2008	1.4	14.0	10.6	80.7	17.8	11.5	6.7	7.9	7.9	7.9	11.6	8.1	298.5	1.3	32.5	7.7	4.7
8	6	2008	0.0	1.7	0.8	72.2	12.1	-1.3	-4.7	4.6	7.0	8.0	11.5	8.4	236.9	1.4	32.5	8.8	0.0
9	6	2008	0.0	6.0	4.8	81.2	17.8	1.0	-2.1	3.9	5.7	6.8	11.5	8.1	203.3	1.3	32.5	8.7	0.0
10	6	2008	0.0	6.9	6.2	89.2	15.3	2.6	-0.6	5.5	6.6	7.3	11.4	7.7	166.8	0.9	32.5	8.1	0.0
11	6	2008	0.0	3.0	2.3	85.4	14.4	0.5	-1.7	3.9	5.8	6.9	11.3	7.8	176.4	1	32.3	8.7	0.0
12	6	2008	0.0	6.9	5.3	73.3	17.1	1.4	-1.4	3.9	5.6	6.6	11.3	7.6	354.1	1.8	32.2	8.2	0.0
13	6	2008	0.0	11.5	10.0	76.6	18.2	6.7	2.7	8.1	8.0	7.8	11.2	3.5	346.4	1.1	32	0.7	2.5
14	6	2008	0.0	15.7	12.7	77.5	17.7	11.4	9.4	10.1	10.0	9.5	11.1	4.1	337.9	1.2	32	1.7	4.5
15	6	2008	0.0	12.4	10.7	89.7	21.3	10.6	7.4	9.9	10.4	10.2	11.2	7.5	147.9	1	31.8	8.2	6.0
16	6	2008	0.0	5.8	5.7	93.6	16.8	3.5	-0.3	7.8	8.9	9.5	11.3	7.1	135.0	0.8	31.6	5.7	0.1
17	6	2008	0.0	3.3	2.7	75.6	15.9	1.0	-2.2	5.9	7.8	8.7	11.4	8.0	330.6	1.5	31.5	8.2	0.0
18	6	2008	0.0	2.4	1.4	82.5	12.4	1.3	0.3	6.1	7.8	8.4	11.4	7.9	209.5	1	31.4	7.8	0.0
19	6	2008	0.0	-0.2	-1.5	80.8	15.9	-2.5	-5.4	2.9	5.5	7.0	11.4	8.2	209.5	1.1	31.3	8.7	0.0
20	6	2008	0.0	0.4	-0.7	83.3	14.9	-2.1	-4.7	2.7	5.0	6.4	11.3	8.1	179.3	1	31.2	8.7	0.0
21	6	2008	4.0	1.8	0.6	85	15.0	-1.6	-4.0	2.6	4.8	6.0	11.2	7.6	209.1	1.1	31.2	8.2	0.0
22	6	2008	11.4	11.5	11.3	93.8	14.5	1.5	-1.5	7.3	7.1	6.9	11.0	2.4	168.8	0.3	33.5	0	0.0
23	6	2008	1.0	9.9	9.1	87.5	10.2	9.9	9.0	9.4	9.4	8.9	10.9	2.1	234.9	0.4	35.9	0	0.1
24	6	2008	0.2	8.0	6.0	80.9	12.1	6.2	4.4	7.1	8.3	8.7	10.9	7.0	245.6	1	36.1	5.9	0.0
25	6	2008	0.2	7.6	5.3	75.5	13.3	-2.1	-5.6	3.8	5.9	7.2	11.0	5.0	389.8	1.2	36	3.8	0.0
26	6	2008	0.6	9.8	7.0	71.6	15.1	6.5	2.7	5.7	6.5	7.1	10.9	7.9	413.9	1.8	35.9	8.4	0.8
27	6	2008	0.0	8.7	7.5	79.1	15.0	7.0	5.0	6.9	7.5	7.6	10.9	5.1	288.1	1	35.7	3.8	1.0
28	6	2008	4.4	5.1	4.3	82.3	13.9	3.7	0.0	5.8	7.1	7.7	10.8	7.3	151.0	1	35.6	7.2	0.0
29	6	2008	0.0	10.3	7.1	79.1	11.7	5.1	0.3	6.5	7.3	7.6	10.8	4.1	233.1	0.7	36.4	0.9	0.0
30	6	2008	0.0	1.3	0.6	84.3	12.1	-1.0	-3.8	3.7	5.6	6.8	10.8	8.0	174.3	1	36.2	8.7	0.0
Means																			
Totals			25.2	6.7	5.4	81.4	15.0	3.1	0.2	5.9	7.1	7.7	11.3	6.6	245.2	1.1	33.3	183.0	19.6

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

Date	Month	Year	Rain		Air		RH		Air		Grass		Soil Temperatures			Solar		Windrun		Penman		Soil		Growing	
			Daily	mm	Dry	Wet	Max	Min	Daily	Min	10cm	20cm	30cm	100cm	Daily	Energy	Daily	km	ET	Moist	Sun	Daily	Degree	Days	>10°C
1	8	2008	0.0	9.1	8.7	7.9	14.6	7.6	5.8	9.4	9.6	9.3	9.9	5.5	289.8	1.1	41.0	1.6	1.1	4.6	1.1	1.1	1.1	1.1	
2	8	2008	26.8	12.0	9.7	88.9	14.9	7.8	4.0	8.4	9.1	9.3	10.0	6.4	241.9	1.0	42.8	4.6	1.4	4.6	1.1	1.1	1.1	1.1	
3	8	2008	0.0	8.3	7.6	84.5	15.9	7.4	7.2	9.2	9.6	9.4	10.1	8.6	194.3	1.3	42.5	4.2	1.7	4.2	1.3	1.3	1.7	1.7	
4	8	2008	6.4	7.6	6.6	91.3	11.7	5.7	3.0	8.0	9.1	9.4	10.2	4.0	161.9	0.5	41.4	2.1	0.0	2.1	0.5	0.5	0.0	0.0	
5	8	2008	0.0	4.5	4.0	84	12.8	2.5	0.2	7.3	8.6	8.9	10.3	10.9	268.1	1.5	41.4	9.5	0.0	9.5	1.5	1.5	0.0	0.0	
6	8	2008	0.0	8.9	7.0	84.9	15.7	4.3	1.0	6.8	7.8	8.3	10.3	10.9	179.1	1.5	40.3	9.5	0.0	9.5	1.5	1.5	0.0	0.0	
7	8	2008	1.4	6.8	5.6	78.4	15.0	2.9	0.8	6.8	7.8	8.3	10.3	9.1	275.4	1.6	39.6	7	0.0	7	1.6	1.6	0.0	0.0	
8	8	2008	4.2	7.4	7.2	92.5	8.7	6.7	6.5	8.6	9.0	8.9	10.3	3.1	147.9	0.3	40.2	0	0.0	0	0.3	0.3	0.0	0.0	
9	8	2008	0.0	2.6	1.9	82	10.4	0.0	-2.2	6.0	7.6	8.3	10.3	9.8	176.1	1.2	40.1	8.1	0.0	8.1	1.2	1.2	0.0	0.0	
10	8	2008	0.0	1.1	0.1	82.6	9.9	-2.2	-4.9	3.9	5.9	7.1	10.4	12.1	202.9	1.4	39.7	9.9	0.0	9.9	1.4	1.4	0.0	0.0	
11	8	2008	14.0	2.6	1.3	88.3	13.5	-2.2	-6.1	3.5	5.2	6.3	10.3	7.5	155.0	1.0	39.8	4.7	0.0	4.7	1.0	1.0	0.0	0.0	
12	8	2008	4.8	6.4	6.3	90.2	13.4	2.4	1.7	7.6	7.8	7.5	10.2	6.5	179.5	0.9	43.2	1.9	0.0	1.9	0.9	0.9	0.0	0.0	
13	8	2008	0.0	10.3	8.7	74.7	15.6	4.6	1.4	7.6	8.2	8.2	10.1	12.5	368.8	2.2	41.4	9.2	0.1	9.2	2.2	2.2	0.1	0.1	
14	8	2008	9.0	8.4	6.5	82.9	14.2	5.8	3.8	7.0	8.0	8.3	10.1	10.2	276.0	1.5	41.5	7	0.0	7	1.5	1.5	0.0	0.0	
15	8	2008	1.8	6.3	5.4	82.5	11.7	2.6	-0.1	6.6	7.7	8.1	10.1	9.3	308.1	1.3	41.7	4.6	0.0	4.6	1.3	1.3	0.0	0.0	
16	8	2008	0.0	5.5	4.6	74.8	12.8	2.4	0.9	5.8	6.9	7.5	10.1	11.8	403.3	2.0	41.0	8	0.0	8	2.0	2.0	0.0	0.0	
17	8	2008	0.0	4.8	3.6	84.6	13.1	1.5	-1.3	5.1	6.4	7.1	10.1	10.9	198.6	1.4	40.3	7.1	0.0	7.1	1.4	1.4	0.0	0.0	
18	8	2008	0.0	3.6	3.0	80.8	12.7	1.3	-1.6	5.8	7.0	7.6	10.1	13.5	217.7	1.7	39.6	9.3	0.0	9.3	1.7	1.7	0.0	0.0	
19	8	2008	0.0	3.8	2.4	79.2	12.4	-0.8	-4.1	4.6	6.2	7.1	10.0	12.2	211.0	1.6	39.0	8.5	0.0	8.5	1.6	1.6	0.0	0.0	
20	8	2008	0.0	2.6	1.0	80.3	11.2	-1.3	-3.4	4.1	5.7	6.7	10.0	13.8	218.8	1.7	38.5	10.3	0.0	10.3	1.7	1.7	0.0	0.0	
21	8	2008	0.0	3.9	2.5	73.5	14.1	-1.2	-3.7	3.8	5.3	6.3	9.9	13.0	287.6	2.2	38.1	10.2	0.0	10.2	2.2	2.2	0.0	0.0	
22	8	2008	0.0	13.0	9.3	75.8	18.2	3.6	2.0	7.4	7.3	7.3	9.9	11.8	259.8	2.0	37.6	5.9	0.9	5.9	2.0	2.0	0.9	0.9	
23	8	2008	2.6	8.3	7.4	90.8	13.4	4.4	0.3	7.9	8.3	8.4	9.8	7.8	121.9	1.0	37.2	1.2	0.0	1.2	1.0	1.0	0.0	0.0	
24	8	2008	21.4	9.3	9.0	96.4	11.6	8.2	8.1	9.5	9.6	9.2	9.8	2.9	210.3	0.3	41.2	0	0.0	0	0.3	0.3	0.0	0.0	
25	8	2008	38.0	10.8	10.3	92.5	15.6	9.2	8.9	10.2	10.1	9.7	9.9	4.4	256.6	0.7	45.2	0.1	2.4	0.1	0.7	0.7	2.4	2.4	
26	8	2008	0.8	11.6	10.7	85	13.1	9.8	9.2	10.6	10.8	10.4	10.0	5.0	267.5	0.9	43.2	0	1.5	0	0.9	0.9	1.5	1.5	
27	8	2008	0.2	10.6	9.5	89.6	16.9	8.3	5.9	10.3	10.5	10.4	10.2	11.5	165.6	1.6	41.2	5.2	2.6	5.2	1.6	1.6	2.6	2.6	
28	8	2008	0.0	9.8	9.3	87.1	14.8	6.7	2.0	10.4	10.9	10.8	10.4	13.7	179.9	1.8	40.2	8.7	0.8	8.7	1.8	1.8	0.8	0.8	
29	8	2008	0.0	7.0	6.3	85	11.8	3.8	1.8	8.6	9.7	10.2	10.5	5.5	177.6	0.8	39.6	1.2	0.0	1.2	0.8	0.8	0.0	0.0	
30	8	2008	0.0	6.5	5.6	83.1	12.4	4.4	2.4	8.6	9.4	9.7	10.6	12.1	219.5	1.6	39.1	5.9	0.0	5.9	1.6	1.6	0.0	0.0	
31	8	2008	0.0	5.5	4.5	78.7	15.6	2.1	-1.2	7.3	8.5	9.2	10.7	10.6	269.9	1.8	38.6	2.6	0.0	2.6	1.8	1.8	0.0	0.0	
Means																									
Totals			131.4	7.1	6.0	84.0	13.5	3.8	1.6	7.3	8.2	8.5	10.2	9.2	228.7	1.3	40.5	168.1	12.4	168.1	1.3	1.3	12.4	12.4	

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

Date	Month	Year	Rain		Air		RH		Air		Grass		Soil Temperatures			Solar		Windrun		Penman		Soil		Growing	
			Daily	mm	Dry	Wet	Daily	Wet	Daily	%	Max	Min	10cm	20cm	30cm	100cm	Daily	Energy	Daily	km	ET	mm	Moist	Sun	Degree
1	9	2008	0.6	14.7	14.7	11.8	81.9	15.5	5.4	9.3	9.3	9.6	10.7	8.3	293.2	8.3	38.2	3	1.5	37.7	3	3.1	3	0.4	
2	9	2008	0.0	14.7	12.9	12.9	76.1	17.9	10.2	10.9	10.4	10.1	10.7	9.7	365.8	9.7	37.7	3	2.1	37.7	3	3.5	0	4.0	
3	9	2008	0.2	13.6	11.9	11.9	81.4	16.5	11.9	11.3	11.3	10.9	10.8	8.8	277.3	8.8	37.3	3	1.6	37.3	3	3.5	0	4.2	
4	9	2008	9.2	10.0	9.5	9.5	91.4	11.5	10.1	11.3	11.4	11.1	10.9	5.7	189.1	5.7	37.3	0	0.7	37.3	0	0	0	0.8	
5	9	2008	14.8	5.8	5.5	5.5	92.8	8.7	5.1	9.6	10.5	10.7	11.0	4.0	149.6	4.0	41.2	0	0.5	41.2	0	0	0	0.0	
6	9	2008	0.2	5.5	5.2	5.2	86.8	12.5	4.9	8.7	9.6	10.0	11.1	15.0	173.5	15.0	42.5	6.9	1.9	42.5	6.9	0	0	0.0	
7	9	2008	0.0	6.7	5.3	5.3	87.5	13.1	1.7	8.2	9.3	9.9	11.1	16.0	173.5	16.0	43.0	10.7	2.0	43.0	10.7	0	0	0.0	
8	9	2008	18.4	8.1	7.2	7.2	97.0	11.8	3.2	8.2	9.2	9.8	11.1	3.9	121.8	3.9	40.3	0.3	0.4	40.3	0.3	0	0	0.0	
9	9	2008	0.4	12.0	11.8	11.8	85.4	18.8	7.9	10.5	10.4	10.2	11.1	9.8	210.5	9.8	42.9	3.2	1.5	42.9	3.2	3.2	3.4	3.4	
10	9	2008	9.6	9.6	8.3	8.3	94.0	14.2	5.9	10.0	10.6	10.8	11.1	8.2	131.1	8.2	42.8	1.9	1.0	42.8	1.9	1.9	0	0.0	
11	9	2008	1.2	9.5	9.0	9.0	92.7	13.3	7.5	10.5	10.9	10.9	11.1	9.7	169.8	9.7	42.5	1.8	1.2	42.5	1.8	1.8	0	0.4	
12	9	2008	0.0	7.8	7.3	7.3	90.3	14.5	4.8	9.5	10.3	10.7	11.2	11.3	153.7	11.3	41.4	2.6	1.5	41.4	2.6	2.6	0	0.0	
13	9	2008	0.0	10.3	9.3	9.3	87.9	15.5	5.6	10.3	10.8	11.0	11.3	15.9	179.7	15.9	40.4	7.8	2.1	40.4	7.8	7.8	0	0.5	
14	9	2008	0.0	9.8	7.7	7.7	85.6	16.9	4.1	9.6	10.5	11.0	11.3	18.0	155.0	18.0	39.6	11.3	2.5	39.6	11.3	11.3	0	0.5	
15	9	2008	0.0	11.9	10.4	10.4	82.4	23.4	5.1	10.3	10.8	11.2	11.4	17.9	198.5	17.9	38.9	9.5	2.8	38.9	9.5	11.1	4.3	4.3	
16	9	2008	0.0	13.4	11.3	11.3	80.7	21.7	6.0	11.3	11.7	11.8	11.5	18.5	148.2	18.5	38.2	11.3	2.8	38.2	11.3	11.3	3.8	3.8	
17	9	2008	0.0	14.6	11.5	11.5	81.9	18.6	4.9	11.2	11.7	12.0	11.6	17.1	255.0	17.1	37.7	9.8	2.7	37.7	9.8	9.8	1.7	1.7	
18	9	2008	10.6	12.1	10.7	10.7	91.3	15.5	8.9	11.9	12.1	12.1	11.7	8.0	137.9	8.0	38.5	1.4	1.1	38.5	1.4	1.4	2.2	2.2	
19	9	2008	0.0	11.2	10.1	10.1	85.5	15.1	7.5	11.6	11.9	12.0	11.8	14.6	168.8	14.6	39.5	5.2	2.1	39.5	5.2	5.2	1.3	1.3	
20	9	2008	0.0	11.3	9.9	9.9	82.0	18.5	7.7	12.3	12.4	12.3	11.9	18.4	187.6	18.4	38.8	9.5	2.8	38.8	9.5	9.5	3.1	3.1	
21	9	2008	0.0	15.3	12.3	12.3	65.5	18.2	6.3	11.8	12.2	12.4	12.0	16.4	499.6	16.4	38.1	7.6	3.6	38.1	7.6	7.6	2.2	2.2	
22	9	2008	0.0	13.9	10.1	10.1	64.6	21.0	8.3	11.3	11.8	12.2	12.1	16.8	352.4	16.8	37.5	9.6	3.4	37.5	9.6	9.6	4.6	4.6	
23	9	2008	0.0	16.6	13.3	13.3	71.8	21.9	10.5	11.5	11.8	12.0	12.1	17.8	492.5	17.8	36.6	8.4	3.9	36.6	8.4	8.4	6.2	6.2	
24	9	2008	0.0	18.2	15.9	15.9	70.3	21.6	15.7	14.1	13.5	13.0	12.2	14.3	296.8	14.3	36.0	4.8	2.8	36.0	4.8	4.8	8.7	8.7	
25	9	2008	0.0	13.2	10.1	10.1	83.6	17.8	6.9	12.2	12.6	12.9	12.3	20.3	205.6	20.3	35.3	11.4	2.9	35.3	11.4	11.4	2.4	2.4	
26	9	2008	0.0	11.7	9.4	9.4	59.4	20.9	5.1	11.7	12.3	12.7	12.4	11.8	389.9	11.8	34.7	11.5	3.0	34.7	11.5	11.5	3.0	3.0	
27	9	2008	4.8	12.8	8.8	8.8	80.4	18.2	3.8	11.5	12.3	12.7	12.5	11.8	305.4	11.8	33.9	3.8	2.0	33.9	3.8	3.8	1.0	1.0	
28	9	2008	0.0	5.6	4.5	4.5	76.6	13.9	2.3	9.3	11.1	11.9	12.5	21.5	272.9	21.5	33.6	11.8	3.2	33.6	11.8	11.8	0.0	0.0	
29	9	2008	4.0	10.7	8.2	8.2	85.2	16.0	5.3	10.0	11.1	11.8	12.5	9.9	264.4	9.9	32.6	1.8	1.6	32.6	1.8	1.8	0.7	0.7	
30	9	2008	1.8	9.9	8.9	8.9	81.3	14.0	8.5	11.1	11.8	12.1	12.5	12.3	277.0	12.3	32.5	2.5	1.8	32.5	2.5	2.5	1.3	1.3	
Means																									
Totals			75.8					16.6	6.7	10.7	11.2	11.4	11.6	13.1	240.0	13.1	38.3	177.6	2.1	38.3	2.1	177.6	60.8	60.8	

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

Date	Month	Year	Rain		Air		RH	Air		Grass	Soil Temperatures			Solar		Windrun	Penman	Soil	Growing		
			Daily	mm	Dry	Wet		Max	Min		10cm	20cm	30cm	100cm	Daily					Energy	Daily
					9am	9am	%	Daily	Daily	Min	9am	9am	9am	9am	9am	9am	mm	5-35cm	Daily	Days	
1	10	2008	0.8	10.3	7.1	7.1	78	16.9	4.0	0.6	9.5	10.9	11.6	12.5	18.3	343.5	2.8	32.5	8.7	0.5	
2	10	2008	0.0	6.7	5.5	5.5	68.8	18.5	2.2	-1.4	9.4	10.8	11.4	12.5	21.8	294.0	3.8	32.2	11.8	0.3	
3	10	2008	0.0	15.9	11.5	11.5	59.4	23.1	6.5	5.9	11.5	12.0	12.2	12.5	21.1	591.2	5.5	32.2	11.8	4.8	
4	10	2008	0.2	18.6	14.4	14.4	74	21.7	15.7	12.6	13.7	13.4	13.0	12.5	12.1	424.2	2.8	32.8	2.9	8.7	
5	10	2008	2.8	12.3	11.1	11.1	93.4	12.3	12.3	11.7	13.6	13.8	13.5	12.6	5.7	208.7	0.7	32.6	0.1	2.3	
6	10	2008	3.6	10.3	9.1	9.1	76.1	20.2	4.8	0.6	10.9	11.8	12.3	12.7	21.5	306.2	3.7	32.5	11	2.5	
7	10	2008	3.2	14.4	13.7	13.7	73.6	18.7	10.0	8.1	13.3	13.3	13.2	12.7	11.0	386.6	2.3	32.4	3.6	4.3	
8	10	2008	0.0	12.6	9.1	9.1	70.1	17.4	8.7	4.0	11.4	12.4	12.8	12.8	20.3	447.9	3.6	32.5	9.4	3.1	
9	10	2008	4.2	9.8	7.4	7.4	82.6	14.9	5.7	3.4	10.0	11.4	12.1	12.8	18.8	247.2	2.6	32.5	8.5	0.3	
10	10	2008	0.0	8.9	7.4	7.4	71.4	19.4	2.3	-0.4	9.9	11.4	12.1	12.9	22.1	277.6	3.6	32.4	10.8	0.9	
11	10	2008	0.0	10.4	8.7	8.7	82.6	18.4	5.5	1.0	10.9	11.9	12.4	12.8	22.0	202.8	3.3	32.2	10.6	1.9	
12	10	2008	0.0	11.3	9.8	9.8	75.4	20.0	5.8	3.3	11.6	12.6	13.0	12.9	17.8	206.9	2.9	32.1	8.9	2.9	
13	10	2008	0.0	13.1	10.6	10.6	72.6	22.7	6.4	3.1	11.9	12.7	13.1	12.9	24.3	242.4	4.1	31.6	12.6	4.5	
14	10	2008	0.0	16.4	13.0	13.0	66.8	22.4	8.4	2.7	12.8	13.3	13.6	13.0	24.9	402.0	4.8	30.8	12.6	5.4	
15	10	2008	0.0	15.8	11.5	11.5	71.4	20.7	9.2	3.7	12.9	13.5	13.7	13.1	20.9	441.5	4.1	30	9.6	4.9	
16	10	2008	0.2	14.8	13.3	13.3	87.1	19.7	12.8	9.8	13.9	14.2	14.1	13.2	15.2	221.9	2.3	29.5	2.8	6.2	
17	10	2008	0.0	11.8	10.8	10.8	84.6	15.3	9.9	6.2	13.6	14.2	14.3	13.3	14.2	223.7	2.1	29.2	3.1	2.6	
18	10	2008	2.4	12.2	9.9	9.9	83.4	20.6	6.2	2.5	12.2	13.3	13.8	13.4	16.3	237.1	2.4	28.8	3.7	3.4	
19	10	2008	0.0	8.4	7.3	7.3	79.3	14.1	4.4	1.0	11.6	12.8	13.4	13.4	24.6	269.2	3.5	28.5	10.7	0.0	
20	10	2008	0.0	14.3	10.0	10.0	67.1	20.1	5.4	2.6	11.7	12.7	13.3	13.5	13.9	332.1	2.9	28.1	6.8	2.8	
21	10	2008	0.0	15.0	12.7	12.7	85	19.0	9.2	3.7	12.6	12.8	13.0	13.5	16.4	184.8	2.4	27.5	5.4	4.1	
22	10	2008	37.4	12.5	11.1	11.1	94.8	15.4	8.6	4.2	12.8	13.5	13.6	13.5	7.5	173.3	1	32.2	0.1	2.0	
23	10	2008	0.4	11.0	9.9	9.9	88.9	14.5	8.6	8.0	12.4	12.9	13.2	13.5	11.2	137.6	1.6	38.8	0	1.6	
24	10	2008	4.0	11.0	10.3	10.3	94.3	14.5	8.3	5.0	12.6	13.3	13.4	13.5	10.4	102.3	1.4	38.7	0	1.4	
25	10	2008	14.2	14.0	13.7	13.7	90.7	19.9	10.9	11.5	14.3	14.2	14.0	13.5	13.1	220.4	1.8	40.8	2.4	5.4	
26	10	2008	0.0	10.1	7.8	7.8	80.3	14.7	5.6	3.2	12.6	13.5	13.9	13.6	23.4	218.4	3.3	40.8	10.5	0.1	
27	10	2008	0.0	13.0	10.4	10.4	86.4	20.6	4.7	1.2	12.4	13.1	13.5	13.6	26.3	187.8	3.9	39.2	12.2	2.6	
28	10	2008	0.0	13.6	11.8	11.8	81.7	27.1	7.1	3.6	13.5	14.2	14.4	13.7	24.3	354.0	4.4	37.8	12.3	7.1	
29	10	2008	0.0	14.5	13.0	13.0	88.7	14.0	12.5	10.3	15.2	15.3	15.1	13.8	11.7	203.2	1.7	37.2	1	3.3	
30	10	2008	0.0	10.4	8.6	8.6	63.9	19.0	3.2	-0.3	11.7	13.0	13.9	13.9	27.6	338.1	4.8	36.5	13.2	1.1	
31	10	2008	0.0	13.8	10.0	10.0	64.7	19.2	7.0	2.1	12.4	13.3	14.0	13.9	22.6	333.4	4.2	35.8	11	3.1	
Means				12.5	10.3	10.3	78.6	18.5	7.5	4.3	12.2	12.9	13.3	13.1	18.1	282.6	3.0	33.2			
Totals			73.4												561.3	8760.0	94.3		228.1	94.0	

Marlborough Research Centre Blenheim																										
Daily weather data is summarised at 9am																										
Date	Month	Year	Rain	Air	Air	RH	Air	Air	Air	Grass	10cm	20cm	30cm	100cm	Solar	Windrun	Penman	Soil	Growing							
			Daily	Dry	Wet	Daily	Max	Min	Daily	Min	9am	9am	9am	9am	Energy	Daily	ET	Moist	Degree							
			mm	9am	9am	%	°C	°C	°C	°C	°C	°C	°C	°C	Daily	km	mm	5-35cm	Days							
				°C	°C										mj/m2		%	>10°C								
1	11	2008	0.0	14.4	11.6	78.1	19.5	10.4	4.8	13.8	14.2	14.0	14.0	15.4	384.6	2.8	35.0	2.3	5.0							
2	11	2008	0.0	11.5	9.7	82.8	15.1	7.6	4.2	13.3	13.8	14.1	14.0	24.8	201.0	3.5	34.5	9.1	1.3							
3	11	2008	0.0	14.3	12.1	66.9	22.3	7.3	4.4	13.3	13.8	14.3	14.0	28.2	425.5	5.4	33.5	13.6	4.8							
4	11	2008	0.4	13.9	11.2	68.9	17.5	12.0	7.3	14.1	14.6	14.8	14.1	15.6	508.9	3.5	32.5	3.3	4.8							
5	11	2008	0.0	15.5	11.2	59.9	17.2	12.4	9.4	13.9	14.4	14.6	14.1	29.0	497.3	5.1	31.8	12	4.8							
6	11	2008	3.6	10.9	7.3	79.1	16.0	3.5	-0.9	11.5	12.7	13.7	14.2	21.8	230.0	3.1	30.9	8.2	0.0							
7	11	2008	4.2	8.6	7.2	82.1	14.9	3.6	1.8	11.9	12.9	13.6	14.2	22.3	188.5	2.9	30.7	7.3	0.0							
8	11	2008	0.0	8.8	7.1	77.9	14.0	2.1	-0.7	10.7	12.1	13.2	14.2	30.1	236.7	4.2	30.6	13.8	0.0							
9	11	2008	2.4	13.5	11.0	77.8	18.1	4.3	0.7	12.6	12.9	13.6	14.2	12.6	267.2	2.3	30.5	2.9	1.2							
10	11	2008	1.0	14.0	13.5	85.3	19.7	13.2	12.4	14.2	14.4	14.2	14.1	11.5	262.3	2.0	30.5	0.6	6.4							
11	11	2008	0.0	19.8	16.4	81.4	25.3	12.2	10.2	15.2	14.7	14.6	14.1	27.5	309.8	4.7	30.1	12.8	8.8							
12	11	2008	0.0	14.8	13.4	78.6	23.7	12.8	11.5	16.1	16.2	15.9	14.2	27.6	180.9	4.5	29.6	9.4	8.3							
13	11	2008	0.0	16.9	14.9	85.3	20.4	10.1	5.3	16.1	16.3	16.4	14.3	27.9	223.3	4.4	28.8	13.9	5.2							
14	11	2008	0.0	14.3	13.2	86.2	18.5	12.4	9.1	16.8	17.1	16.9	14.5	23.7	211.2	3.6	28.3	7.3	5.4							
15	11	2008	0.0	18.8	15.6	65.5	23.9	10.1	5.6	16.2	16.3	16.5	14.7	30.6	520.1	6.4	27.3	13.8	7.0							
16	11	2008	12.0	18.8	14.8	74.9	21.9	13.5	9.2	16.8	16.8	16.8	14.8	23.5	419.1	4.5	26.1	9.6	7.7							
17	11	2008	0.6	16.2	15.3	65.2	20.3	13.6	13.0	16.8	17.1	16.9	15.0	25.0	462.8	4.9	26.1	6.5	6.9							
18	11	2008	3.8	14.7	9.8	77.6	20.1	9.1	5.0	13.8	15.1	15.8	15.1	24.9	288.8	3.9	26.2	10.1	4.6							
19	11	2008	0.0	13.9	10.4	67.7	22.0	7.4	4.4	14.2	15.0	15.6	15.1	29.2	285.1	5.0	26.2	13.8	4.7							
20	11	2008	0.0	12.5	10.1	82	15.7	6.9	2.1	14.1	15.1	15.7	15.1	28.3	222.0	4.0	26.0	8.4	1.3							
21	11	2008	0.0	14.5	12.3	65.8	21.5	5.9	1.6	14.2	14.8	15.5	15.2	29.0	437.2	5.6	25.5	13	3.7							
22	11	2008	0.2	16.4	13.8	84.3	19.1	10.8	5.1	15.5	16.0	16.1	15.2	7.8	235.3	1.4	25.0	0.5	4.9							
23	11	2008	1.4	17.9	16.4	82.8	22.2	14.2	12.5	16.5	16.2	16.0	15.2	10.9	296.7	2.1	24.8	0.3	8.2							
24	11	2008	24.6	17.1	16.7	89.4	20.8	15.4	15.1	17.2	16.9	16.5	15.3	11.2	292.6	2.0	27.4	0	8.1							
25	11	2008	0.0	19.5	15.3	72.6	22.8	15.1	11.1	17.3	17.4	17.1	15.3	29.3	414.7	5.4	30.3	13.1	9.0							
26	11	2008	0.0	11.1	9.7	87.6	14.6	10.1	8.5	15.3	16.7	17.0	15.4	12.0	146.2	1.7	30.9	0.2	2.4							
27	11	2008	0.2	13.4	12.4	86.1	16.4	11.0	11.2	15.7	16.3	16.4	15.5	11.2	190.4	1.8	31.0	1.2	3.7							
28	11	2008	0.0	16.4	14.0	77.6	22.0	10.0	8.5	15.9	15.9	16.1	15.5	31.5	223.4	5.3	30.5	14.3	6.0							
29	11	2008	0.0	20.2	16.6	75.7	28.5	10.7	7.7	17.4	17.2	17.3	15.5	31.3	272.9	5.6	29.7	13.5	9.6							
30	11	2008	0.0	17.2	15.1	84.4	19.4	12.9	9.8	18.3	18.2	18.2	15.6	28.0	258.4	4.4	29.0	12.4	6.1							
Means				15.0	12.6	77.7	19.8	10.0	7.0	14.9	15.4	15.6	14.7	22.7	303.1	3.9	29.3									
Totals			54.4											681.6	9092.9	116.0		247.2	150.1							

Marlborough Research Centre Blenheim																										
Daily weather data is summarised at 9am																										
Date	Month	Year	Rain	Air	Air	RH	Air	Air	Grass	10cm	20cm	30cm	100cm	Solar	Windrun	Penman	Soil	Sun	Growing							
			Daily	Dry	Wet	Daily	Max	Min	Min	9am	9am	9am	9am	Daily	Daily	ET	Moist	Daily	Degree							
			mm	9am	9am	%	9am	9am	9am	9am	9am	9am	9am	mj/m2	km	mm	%	hours	Days							
				°C	°C		°C	°C	°C	°C	°C	°C	°C					>10°C								
1	12	2008	1.4	16.8	15.2	85.7	22.8	11.7	8.9	17.8	18.1	18.2	15.8	15.0	129.8	2.4	28.5	0.2	7.3							
2	12	2008	0.0	19.6	17.0	66.6	26.0	13.7	11.5	18.6	18.3	18.2	15.9	31.4	336.5	6.1	27.7	12.8	9.8							
3	12	2008	0.0	19.2	15.7	72.7	24.3	12.6	7.0	17.9	18.0	18.3	16.1	18.7	362.2	3.9	27.1	5.3	8.4							
4	12	2008	1.8	19.0	15.1	77.9	23.7	16.9	15.0	18.0	18.4	18.4	16.2	22.6	361.5	4.2	26.1	4.8	10.3							
5	12	2008	0.0	17.4	15.4	84.0	19.3	11.6	7.4	18.3	18.0	18.2	16.3	31.8	235.0	4.9	25.5	13.7	5.5							
6	12	2008	0.0	15.3	12.9	85.7	19.1	6.9	2.4	17.3	17.7	18.2	16.3	31.8	248.0	4.8	24.5	13.7	3.0							
7	12	2008	0.0	15.7	13.4	67.8	25.0	9.4	6.8	17.7	17.9	18.3	16.4	28.7	197.8	5.0	23.9	11.6	7.2							
8	12	2008	4.6	16.2	14.0	83.9	21.3	8.8	4.4	17.1	17.9	18.3	16.5	9.2	187.7	1.6	23.7	1.1	5.0							
9	12	2008	0.0	15.6	15.1	90.2	20.1	13.6	13.2	17.2	17.6	17.7	16.6	15.4	188.8	2.4	23.6	1.3	6.9							
10	12	2008	0.0	16.6	14.8	81.6	21.5	13.4	13.1	18.0	17.9	17.9	16.6	29.3	205.1	4.8	23.3	8.7	7.5							
11	12	2008	0.0	18.6	14.7	80.1	23.2	10.1	5.6	18.4	18.0	18.3	16.6	25.6	184.2	4.2	23.0	9.5	6.6							
12	12	2008	2.2	17.0	15.0	82.2	22.0	12.1	9.4	18.7	18.6	18.7	16.7	20.9	201.4	3.3	22.6	5.3	7.0							
13	12	2008	0.0	14.1	11.7	81.4	16.4	10.5	8.9	17.1	17.8	18.2	16.7	19.8	187.2	3.0	22.0	4.1	3.4							
14	12	2008	1.0	14.0	11.5	80.3	18.0	7.5	2.2	15.9	16.7	17.4	16.8	25.8	159.3	4.0	21.8	7.7	2.7							
15	12	2008	23.6	15.5	14.8	95.1	19.2	13.5	11.9	17.8	18.3	18.3	16.8	8.3	130.8	1.2	23.9	0	6.3							
16	12	2008	1.6	19.3	17.7	79.3	23.1	14.6	12.2	18.0	18.0	18.0	16.8	23.4	310.5	4.2	27.3	7.9	8.8							
17	12	2008	0.0	16.4	15.0	86.8	19.0	14.3	11.6	17.6	18.2	18.4	16.8	16.3	246.2	2.5	27.6	2.2	6.6							
18	12	2008	0.0	18.5	13.7	63.2	24.7	8.8	5.4	16.2	16.8	17.5	16.9	27.0	322.0	5.4	27.3	10.8	6.8							
19	12	2008	7.6	15.5	12.4	75.7	21.4	12.6	9.2	16.8	17.6	17.9	16.9	13.3	325.5	2.7	27.0	2.6	7.0							
20	12	2008	19.2	17.2	16.6	89.2	22.4	15.3	14.8	17.5	17.6	17.6	16.9	13.8	226.2	2.1	32.4	3.3	8.8							
21	12	2008	0.0	11.3	10.3	84.7	16.5	9.9	9.9	15.5	16.9	17.5	16.9	16.5	174.9	2.4	34.8	0.2	3.2							
22	12	2008	0.0	14.2	11.9	84.5	18.1	6.7	3.5	15.6	15.8	16.7	16.9	32.9	233.0	4.8	34.3	14.5	2.4							
23	12	2008	0.2	14.7	12.7	82.2	20.5	6.9	4.7	16.1	16.5	17.3	16.8	30.2	205.2	4.8	33.4	11.9	3.7							
24	12	2008	12.6	13.1	12.5	96.6	15.4	10.7	9.5	16.4	17.7	18.3	16.9	8.5	113.3	1.1	35.2	0	3.0							
25	12	2008	0.0	15.7	14.3	86.7	18.9	9.8	6.1	16.5	16.4	17.1	16.9	20.8	212.8	3.2	36.0	5.3	4.4							
26	12	2008	0.0	15.4	13.3	77.3	24.4	12.5	12.1	17.5	17.5	17.7	16.9	31.5	241.9	5.4	35.1	11.7	8.4							
27	12	2008	0.0	18.1	15.8	76.1	25.0	12.7	9.9	18.1	18.4	18.8	16.9	32.9	291.3	5.8	34.0	12.7	8.8							
28	12	2008	0.0	17.9	15.0	79	25.6	9.8	5.3	18.4	18.5	19.2	17.0	32.7	179.6	5.5	32.8	14.7	7.7							
29	12	2008	0.0	18.9	16.6	70.1	29.1	12.5	8.7	20.1	19.8	20.1	17.2	33.0	209.0	6.1	31.6	14.3	10.8							
30	12	2008	0.0	21.5	17.7	67.6	29.8	14.8	11.2	21.8	21.3	21.3	17.4	29.6	291.9	5.9	30.4	12.1	12.3							
31	12	2008	0.2	22.4	17.1	72	24.4	13.3	9.5	20.9	20.8	21.2	17.6	23.4	439.0	4.9	29.3	8.5	8.8							
Means																										
Totals			76.0	16.8	14.5	80.2	21.9	11.5	8.8	17.7	18.0	18.3	16.7	720.1	7337.6	122.6	28.2	232.5	208.5							