

Marlborough Research Centre Blenheim																	
Daily weather data is summarised at 9am																	
Date	Month	Year	Rain Daily	Air Dry 9am	Air Wet 9am	RH Daily	Air Max Daily	Air Min Daily	Grass Daily	Soil 10cm 9am	20cm 9am	30cm 9am	100cm 9am	Solar Energy Daily	Windrun Daily	Penman ET	Soil Moisture 5-35cm %
1	1	2007	0.4	11.7	10.0	76.3	17.8	7.2	5.5	15.6	16.4	17.5	17.5	23.1	157.2	3.5	18.4
2	1	2007	0.0	12.7	11.5	77.2	19.0	10.2	9.6	17.0	17.8	18.4	17.4	19.5	186.5	3.1	18.3
3	1	2007	0.0	12.2	10.6	78.1	17.4	8.1	5.3	16.9	17.6	18.3	17.4	19.4	197.5	2.9	18.2
4	1	2007	0.0	12.5	10.7	79.4	17.0	5.1	1.0	16.2	16.8	17.8	17.3	31.6	230.8	4.8	18.2
5	1	2007	0.0	17.3	15.1	79.9	25.3	9.6	7.1	19.0	18.4	19.0	16.9	32.9	410.4	6.7	17.9
6	1	2007	0.0	19.0	13.8	60.9	30.6	12.5	6.0	20.3	19.7	20.2	17.4	30.7	339.0	6.4	17.7
7	1	2007	0.0	13.3	10.8	56.7	17.6	11.2	11.0	19.4	21.2	21.7	17.5	16.3	242.6	2.7	17.5
8	1	2007	0.0	17.7	14.7	77.6	25.5	9.8	8.0	18.2	19.1	19.8	17.2	29.1	504.5	6.2	17.4
9	1	2007	11.0	19.9	16.2	68.1	20.9	17.0	15.4	20.6	21.0	21.2	17.1	7.7	133.6	1.2	17.4
10	1	2007	5.6	14.5	14.2	90.5	18.3	13.7	13.7	17.4	18.6	19.3	17.2	10.0	152.0	1.5	18.6
11	1	2007	0.0	16.3	15.6	94.3	25.0	13.5	12.8	18.3	18.0	18.4	17.8	26.3	207.3	4.7	18.7
12	1	2007	1.2	18.8	16.4	77.5	23.4	14.8	13.8	19.2	19.5	19.9	17.8	21.1	230.4	3.4	18.7
13	1	2007	9.0	15.7	15.1	88.2	22.0	14.7	14.8	18.8	19.7	20.1	17.8	15.4	121.7	2.5	20.0
14	1	2007	0.0	20.9	17.8	89.9	23.8	15.5	17.0	20.7	20.4	20.4	17.9	18.7	269.2	3.6	20.8
15	1	2007	0.0	20.7	16.3	76.8	26.2	14.4	11.9	18.8	19.0	19.6	18.0	27.9	211.0	4.8	21.1
16	1	2007	0.0	17.1	15.5	80.9	23.2	15.1	13.5	19.8	20.3	20.6	18.0	28.3	264.6	4.7	21.2
17	1	2007	0.0	16.2	14.3	81.9	16.7	12.3	10.1	19.1	20.3	21.0	18.1	11.7	223.2	1.9	20.9
18	1	2007	0.0	14.2	11.8	81.0	22.1	7.5	4.1	17.1	17.8	18.8	18.3	29.6	167.2	4.7	20.7
19	1	2007	0.0	16.0	15.2	82.0	23.8	11.4	8.8	19.2	19.9	20.5	17.8	27.8	185.8	4.6	20.0
20	1	2007	0.2	17.8	16.4	84.1	23.4	13.0	10.5	21.0	21.1	21.4	18.0	11.1	324.8	2.8	18.4
21	1	2007	0.0	21.1	16.2	66.9	24.0	17.8	16.0	19.8	20.1	20.5	18.4	14.9	266.0	2.8	18.6
22	1	2007	0.0	23.9	17.8	80.0	31.3	14.0	12.2	20.7	20.2	20.5	18.5	28.5	458.6	7.2	19.0
23	1	2007	0.0	24.5	20.5	53.6	29.8	19.3	16.5	23.7	22.7	22.6	18.5	27.4	291.4	4.9	18.5
24	1	2007	0.0	16.7	15.1	78.4	28.9	14.3	13.5	22.1	22.6	22.9	18.6	30.0	367.7	6.5	18.1
25	1	2007	0.0	22.4	17.3	61.6	23.3	16.6	17.0	23.8	23.6	23.8	18.8	23.5	249.9	3.9	17.9
26	1	2007	15.6	16.1	14.8	83.6	21.2	14.4	13.6	21.5	22.6	23.0	19.0	15.7	182.5	2.5	18.8
27	1	2007	0.0	15.9	14.4	89.3	18.5	14.0	13.4	19.1	20.5	21.3	18.7	22.0	203.9	3.4	19.6
28	1	2007	4.2	16.1	14.9	86.6	24.0	10.3	8.6	17.2	18.2	19.5	19.2	18.4	270.9	3.3	19.2
29	1	2007	10.8	17.3	13.7	80.8	22.5	14.3	11.5	17.4	18.8	19.9	19.1	20.6	339.3	3.7	19.1
30	1	2007	0.0	16.2	12.6	76.5	23.2	11.5	8.8	15.5	17.2	18.6	19.0	30.2	328.9	5.2	20.9
31	1	2007	0.0	17.1	12.4	71.3	25.3	8.7	6.4	15.5	16.7	18.1	18.9	28.9	429.3	6.2	21.2
Means				17.2	14.6	77.7	22.9	12.6	10.9	19.0	19.5	20.1	18.0	22.5	262.8	4.1	19.1
Totals			58.0											698.2	8147.7	126.3	

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Date	Month	Year	Rain Daily mm	Air		RH Daily %	Air		Grass		Soil Temperatures			Solar		Windrun Daily km	Penman ET mm	Soil Moisture 5-35cm %
				Dry 9am °C	Wet 9am °C		Max Daily °C	Min Daily °C	Min Daily °C	10cm 9am °C	20cm 9am °C	30cm 9am °C	100cm 9am °C	Energy Daily mj/m2				
1	2	2007	1.6	19.3	17.7	69.1	22.4	16.9	16.0	19.4	19.8	20.0	18.4	14.7	354.8	3.2	21.2	
2	2	2007	5.2	15.6	12.3	80.1	21.3	9.7	6.5	15.9	16.8	18.1	18.7	23.7	220.9	3.9	21	
3	2	2007	0.0	13.3	12.5	83.4	17.8	11.8	11.7	17.2	18.6	19.3	18.6	21.9	206.4	3.3	20.5	
4	2	2007	0.0	14.0	12.6	77.5	24.0	8.8	6.8	15.6	16.7	17.9	18.2	27.1	174.4	4.6	20.3	
5	2	2007	0.0	17.3	16.0	78.1	24.0	13.7	11.6	18.9	19.4	19.9	18.5	26.7	210.4	4.5	19.8	
6	2	2007	0.0	15.4	13.8	80.5	23.5	9.9	8.1	18.2	19.3	20.3	18.5	24.6	211.6	4.1	18.9	
7	2	2007	0.0	17.5	15.3	82	25.7	12.3	10.8	19.1	19.8	20.5	18.6	25.0	170.3	4.3	19.3	
8	2	2007	0.0	18.8	17.6	80.4	26.5	15.8	14.0	21.3	21.6	21.8	18.7	23.3	219.1	4.2	18.9	
9	2	2007	1.2	18.9	17.5	74.3	30.6	14.7	12.9	21.4	22.0	22.5	18.8	24.5	267.2	4.7	18.4	
10	2	2007	0.0	15.1	13.5	79.1	17.9	14.0	13.5	20.2	22.2	22.9	19.0	13.0	214.0	2.3	18	
11	2	2007	0.0	14.9	12.8	73.9	19.1	11.6	8.8	19.2	20.1	20.8	19.1	22.5	201.7	3.8	17.7	
12	2	2007	0.0	14.2	12.4	83.3	17.5	12.3	9.8	18.9	20.3	20.9	19.0	9.9	197.6	1.6	17.3	
13	2	2007	1.8	14.1	12.3	82.1	22.0	11.5	10.5	18.2	18.9	19.7	19.2	22.8	161.2	3.7	17.3	
14	2	2007	0.0	15.3	14.0	85	18.0	13.9	13.8	18.7	20.2	20.8	19.1	9.5	178.3	1.6	17.2	
15	2	2007	0.0	15.5	14.2	80.6	25.6	11.4	9.9	17.5	18.3	19.2	19.1	23.2	190.6	3.9	17.2	
16	2	2007	0.0	16.0	14.5	80.1	22.7	13.7	11.1	19.5	20.6	21.1	19.0	20.7	177.2	3.3	16.9	
17	2	2007	0.0	13.0	11.9	83.7	18.5	8.3	5.6	17.4	19.1	20.2	19.0	25.5	191.5	3.8	16.9	
18	2	2007	0.0	12.1	11.7	80	21.7	8.2	5.7	16.9	19.0	20.2	19.0	26.0	220.5	4.2	16.6	
19	2	2007	0.0	16.1	13.9	84.5	22.0	11.2	9.5	18.7	19.7	20.7	19.0	25.0	250.2	4.1	16.6	
20	2	2007	0.0	17.2	15.6	81.4	25.9	13.5	13.2	20.6	21.3	21.6	19.1	25.5	185.9	4.3	16.5	
21	2	2007	0.0	18.1	16.7	79.2	26.4	12.5	10.5	20.7	21.6	22.3	19.1	24.4	208.4	4.4	16.3	
22	2	2007	0.0	18.4	17.0	80.7	25.8	16.5	14.9	22.0	22.8	23.0	19.3	20.2	171.9	3.5	16.3	
23	2	2007	0.0	17.2	16.3	82.7	19.9	14.4	11.6	21.4	22.7	23.1	19.4	7.4	192.4	1.4	15.9	
24	2	2007	0.0	15.7	13.8	80.9	20.2	14.3	13.3	19.2	20.3	21.0	19.5	17.1	205.0	2.8	15.9	
25	2	2007	0.0	14.9	13.3	62.6	26.7	10.7	9.1	18.1	19.2	20.3	19.5	24.8	399.2	5.6	15.9	
26	2	2007	0.0	20.8	15.4	61.1	29.5	14.7	17.1	21.5	21.7	21.9	19.4	24.2	382.3	5.5	15.9	
27	2	2007	0.0	15.3	14.2	79.2	20.8	14.4	12.6	20.4	22.1	22.6	19.5	15.3	242.6	2.7	15.6	
28	2	2007	0.0	13.1	11.8	80.1	17.3	12.2	12.3	18.9	21.0	21.7	19.5	11.5	195.7	1.9	15.6	
Means				16.0	14.3	78.8	22.6	12.6	11.1	19.1	20.2	20.9	19.0	20.7	221.5	3.6	17.6	
Totals			9.8											580.0	6201.3	101.2		

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Date	Month	Year	Rain Daily	Air		RH Daily	Air		Grass		Soil Temperatures			Solar		Windrun Daily	Penman ET	Soil Moisture 5-35cm %
				Wet 9am	Dry 9am		Max Daily	Min Daily	Min Daily	Daily	10cm 9am	20cm 9am	30cm 9am	100cm 9am	Energy Daily			
1	3	2007	0.0	13.0	11.6	72.4	26.1	8.4	5.9	17.5	19.0	20.2	19.5	24.1	308.9	4.5	15.5	
2	3	2007	0.0	14.5	13.1	82.9	21.5	9.8	6.5	18.9	20.2	20.7	19.6	13.7	177.5	2.3	15.4	
3	3	2007	0.0	16.5	14.6	81.2	21.8	14.0	12.4	20.1	21.0	21.3	19.4	23.6	217.4	3.8	15.4	
4	3	2007	0.0	14.3	13.0	69.5	27.7	10.4	8.0	18.4	20.1	21.2	19.4	22.2	239.4	4.3	15.4	
5	3	2007	0.0	19.5	15.7	53.3	29.4	14.0	11.5	20.0	21.2	21.8	19.4	24.3	422.4	6.1	15.2	
6	3	2007	0.0	20.9	15.6	61.7	26.4	18.1	16.0	20.9	21.9	22.2	19.4	23.9	499.1	5.8	15.2	
7	3	2007	0.0	18.2	15.3	64.2	24.6	16.5	14.5	20.6	21.7	22.2	19.4	11.5	390.8	3.1	15	
8	3	2007	0.0	17.6	13.3	76.1	25.9	14.2	11.1	18.5	20.0	20.9	19.5	23.4	241.3	4	15	
9	3	2007	0.0	12.5	11.7	78.2	24.8	8.9	5.7	17.6	19.5	20.8	19.6	22.6	201.4	3.8	14.9	
10	3	2007	0.0	12.8	12.0	79.3	24.3	9.7	7.0	17.6	19.5	20.7	19.5	23.1	180.2	3.8	14.9	
11	3	2007	0.0	15.3	13.7	60.4	27.6	10.0	7.9	17.9	19.6	20.7	19.5	22.5	418.5	5.4	14.9	
12	3	2007	0.2	20.8	17.9	73.6	25.3	15.0	17.4	21.2	21.6	21.6	19.3	13.9	290.3	3	14.8	
13	3	2007	4.2	17.1	16.5	78.9	22.9	16.0	15.4	20.5	21.5	21.7	19.3	9.1	262.9	1.7	14.6	
14	3	2007	6.4	12.9	9.1	79.5	15.4	9.4	6.3	13.8	16.6	18.8	19.5	11.5	294.6	1.9	16.2	
15	3	2007	0.0	9.7	7.8	52	19.9	4.8	1.9	10.6	13.2	15.7	19.4	22.2	572.1	5.6	16.7	
16	3	2007	0.0	17.8	13.1	57.4	24.1	9.4	10.0	14.9	15.6	16.5	19.1	19.7	375.7	4.7	17	
17	3	2007	0.0	17.8	15.5	79.4	22.8	17.5	14.7	17.7	18.1	18.3	18.9	6.3	336.1	1.6	17.2	
18	3	2007	0.0	14.4	13.6	61.5	21.6	13.2	11.5	16.5	17.6	18.2	17.2	18.0	470.8	4.1	17.1	
19	3	2007	0.0	19.4	13.9	53.3	25.7	7.6	4.5	16.1	16.2	17.0	18.6	21.3	360.0	4.9	17.2	
20	3	2007	0.0	16.1	12.0	75.7	22.1	9.4	5.4	16.3	17.1	18.0	18.5	20.5	225.6	3.4	17.2	
21	3	2007	0.0	14.5	12.0	62.7	23.2	6.7	4.1	15.6	16.5	17.7	18.0	13.5	341.5	3.2	16.9	
22	3	2007	0.0	14.8	11.8	79.1	19.9	11.7	8.7	16.6	17.4	18.0	18.4	20.1	263.8	3.2	16.8	
23	3	2007	0.0	15.5	13.1	75	24.9	8.4	6.8	15.7	16.4	17.5	18.1	20.2	200.8	3.5	16.7	
24	3	2007	0.0	17.8	14.5	67.4	27.3	10.8	8.2	17.1	17.5	18.3	18.4	20.7	281.1	4.1	16.6	
25	3	2007	0.0	20.5	14.8	68.3	25.6	10.7	6.2	17.5	17.9	18.7	18.0	20.0	326.0	4.1	16.5	
26	3	2007	0.0	16.8	13.9	81.6	18.8	10.9	8.8	17.8	18.3	18.9	18.4	17.1	222.0	2.9	16.3	
27	3	2007	0.0	15.6	13.7	82.8	20.7	13.7	13.1	18.2	18.8	19.1	18.2	11.7	155.1	2	16.1	
28	3	2007	0.6	16.6	15.3	90.1	18.9	14.8	14.0	18.7	19.1	19.2	18.0	5.1	134.8	0.8	16.1	
29	3	2007	0.4	17.0	16.3	90.3	22.9	15.2	14.6	18.0	18.4	18.6	17.5	8.9	157.2	1.5	16.1	
30	3	2007	0.0	20.4	18.5	74.8	26.6	15.9	14.7	19.2	18.7	18.7	18.4	15.4	240.9	3.1	16.1	
31	3	2007	0.0	21.0	17.3	71.3	24.2	18.0	15.4	19.7	19.7	19.7	18.3	11.7	375.5	2.8	16	
Means				16.5	13.9	72.1	23.6	12.0	9.9	17.7	18.7	19.4	18.8	17.5	296.2	3.5	16.0	
Totals			11.8											541.9	9183.7	109.0		

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Date	Month	Year	Rain Daily	Air		RH Daily	Air		Grass		Soil Temperatures			Solar		Windrun Daily	Penman ET	Soil Moisture 5-35cm %
				Wet 9am	Dry 9am		Max Daily	Min Daily	Min Daily	Daily	10cm 9am	20cm 9am	30cm 9am	100cm 9am	Daily			
1	4	2007	0.0	19.5	15.2	75.6	23.8	11.4	7.3	18.1	18.6	19.2	18.4	17.5	252.3	3.2	15.9	
2	4	2007	0.0	13.2	12.2	85.5	20.0	9.7	7.3	16.6	17.9	18.8	18.4	17.6	207.3	2.6	15.7	
3	4	2007	0.0	12.5	11.3	79.6	21.3	7.2	3.7	14.9	16.6	17.9	18.4	15.9	169.5	2.6	15.5	
4	4	2007	8.4	16.0	14.3	93.1	17.9	10.6	8.1	16.7	17.3	18.0	18.4	6.6	152.6	0.9	15.4	
5	4	2007	0.0	11.7	11.1	85.9	17.2	5.1	2.6	12.2	14.1	16.0	18.3	15.7	188.4	2.2	15.5	
6	4	2007	0.0	11.6	10.0	85.2	19.7	5.4	2.3	11.3	12.9	14.7	18.2	16.9	188.8	2.5	15.5	
7	4	2007	0.0	10.9	9.9	87.7	18.3	7.4	5.5	12.3	13.6	15.0	18.0	14.2	169.0	2.1	15.6	
8	4	2007	0.0	12.0	11.7	89.4	19.4	8.6	5.8	13.5	14.4	15.3	17.8	15.1	173.1	2.2	15.9	
9	4	2007	0.0	12.1	11.6	87.1	19.0	6.3	3.3	12.6	13.8	15.2	17.5	15.2	179.9	2.3	15.9	
10	4	2007	0.0	16.3	12.8	61.9	23.2	8.9	6.4	14.4	15.3	16.1	17.6	16.2	380.2	3.7	16.1	
11	4	2007	9.6	17.9	13.3	75.2	21.0	11.6	9.0	15.2	15.5	16.2	17.5	11.2	281.5	2.2	15.9	
12	4	2007	0.8	8.8	7.8	72.2	15.6	7.3	7.2	12.7	14.6	15.8	17.2	14.0	287.6	2.5	16	
13	4	2007	1.0	10.0	9.1	82.8	14.1	5.8	3.8	11.8	13.2	14.4	17.4	8.0	167.5	1.1	16	
14	4	2007	0.0	9.7	7.6	83	18.2	3.7	0.3	8.7	10.5	12.6	17.3	12.5	226.1	1.9	16.2	
15	4	2007	0.0	12.7	10.9	83.8	19.4	6.4	2.5	10.3	11.4	12.8	17.1	15.0	183.8	2.4	16.4	
16	4	2007	0.0	13.4	12.5	72.6	19.7	8.9	6.4	12.8	13.5	14.2	16.9	13.4	327.5	2.7	16.6	
17	4	2007	0.0	16.9	12.5	83.4	21.7	11.6	7.6	13.1	13.6	14.3	16.8	9.7	238.2	1.6	16.8	
18	4	2007	0.0	10.2	8.9	87.5	14.7	8.5	5.8	12.9	13.7	14.5	16.7	8.5	153.1	1.1	16.7	
19	4	2007	0.0	6.9	6.3	87.8	15.7	4.1	1.0	9.7	11.4	13.1	16.6	13.5	215.0	1.8	16.8	
20	4	2007	0.0	9.4	8.6	88	18.6	4.2	1.8	9.4	10.9	12.5	16.4	14.4	178.9	2	16.8	
21	4	2007	0.0	10.1	9.0	89.1	19.6	5.1	2.5	9.8	11.2	12.6	16.4	13.2	144.2	1.9	16.8	
22	4	2007	0.0	12.0	11.8	92.6	14.6	8.9	5.4	13.0	13.4	13.7	16.2	4.7	117.5	0.6	16.8	
23	4	2007	0.0	12.4	11.6	86.8	20.2	8.7	5.2	12.8	13.5	14.0	16.1	13.3	154.7	1.9	16.8	
24	4	2007	0.0	9.3	8.7	89	19.6	4.9	2.4	10.5	12.1	13.5	16.1	13.5	186.2	1.9	16.6	
25	4	2007	0.0	12.5	11.4	89.8	19.9	6.8	4.6	11.5	12.3	13.3	16.1	12.2	157.6	1.7	16.7	
26	4	2007	3.4	11.4	10.9	95.1	18.3	7.0	4.9	11.6	12.6	13.6	16.0	5.9	128.6	0.8	16.5	
27	4	2007	7.2	12.5	12.6	95.9	17.7	11.4	11.8	13.5	14.0	14.1	16.0	4.7	174.8	0.6	16.6	
28	4	2007	8.2	12.1	12.0	96.4	12.1	12.1	11.5	13.1	14.0	14.1	15.9	2.6	216.3	0.3	19.6	
29	4	2007	0.0	8.9	9.1	90.7	15.1	5.4	2.2	9.9	11.7	13.0	15.9	9.0	165.3	1.2	21	
30	4	2007	10.2	7.9	7.4	99.4	11.0	5.9	4.2	9.3	10.8	12.3	15.8	3.1	94.5	0.3	22.9	
Means				12.0	10.7	85.7	18.2	7.6	5.1	12.5	13.6	14.7	17.0	11.8	195.3	1.8	16.7	
Totals			48.8											353.5	5860.0	54.8		

Marlborough Research Centre Blenheim																			
Daily weather data is summarised at 9am																			
Date	Month	Year	Rain Daily	Air		RH Daily	Air		Grass		Soil Temperatures			Solar		Windrun Daily	Penman ET	Soil Moisture 5-35cm %	
				Dry 9am	Wet 9am		Max Daily	Min Daily	Min Daily	Max Daily	10cm 9am	20cm 9am	30cm 9am	100cm 9am	Energy Daily				mm
1	5	2007	22.0	11.1	10.9	94.2	20.4	7.7	6.1	10.5	11.5	12.2	15.7	11.0	162.3	1.5	27.8		
2	5	2007	26.6	12.4	12.6	94.9	19.0	10.9	9.6	12.7	13.0	13.1	15.5	9.2	133.0	1.3	35.3		
3	5	2007	0.6	10.7	10.3	87.7	15.1	10.4	9.3	12.7	13.5	13.9	15.5	9.0	178.9	1.3	36.5		
4	5	2007	0.0	9.3	8.5	87.4	17.2	7.0	4.5	10.8	12.2	13.2	15.4	11.8	164.8	1.7	35.7		
5	5	2007	0.0	12.1	10.9	77.1	20.0	7.1	4.6	9.7	11.2	12.5	15.4	10.6	338.0	2.2	35.3		
6	5	2007	0.0	16.7	15.1	84.5	23.0	11.4	9.7	13.3	13.4	13.3	15.3	10.1	245.2	1.8	34.7		
7	5	2007	0.0	16.5	14.1	79	21.3	11.3	9.3	13.4	13.7	13.8	15.3	3.9	223.1	0.9	34.3		
8	5	2007	0.0	9.2	8.2	86.9	17.3	6.1	4.1	10.3	12.0	13.1	15.3	10.9	196.2	1.5	34.0		
9	5	2007	0.0	7.8	7.2	71.4	18.3	5.0	3.1	8.9	10.5	11.9	15.3	6.6	370.5	1.8	33.7		
10	5	2007	0.0	16.1	14.7	83.4	19.6	7.5	7.6	12.4	12.3	12.4	15.1	5.9	243.4	1.1	33.4		
11	5	2007	1.8	14.3	10.7	79.9	17.2	9.4	5.7	10.9	11.8	12.6	15.1	7.3	329.8	1.4	33.2		
12	5	2007	0.0	7.0	6.2	87.9	15.5	4.4	1.8	8.8	10.2	11.5	15.0	10.4	194.0	1.4	32.6		
13	5	2007	0.0	7.3	6.6	90.4	17.6	4.0	1.7	7.7	9.4	10.8	14.9	10.4	181.4	1.4	33.1		
14	5	2007	0.0	7.1	6.5	79.1	17.5	3.0	1.4	7.4	9.1	10.5	14.7	3.7	280.8	0.9	33.0		
15	5	2007	0.0	10.9	10.4	66.9	18.2	7.0	6.6	10.3	10.6	10.8	14.1	9.0	330.4	2.2	32.9		
16	5	2007	0.0	16.8	12.3	62.4	19.1	10.8	7.7	10.7	10.9	11.4	14.4	5.7	456.9	2.3	32.6		
17	5	2007	0.0	14.6	10.7	70.9	19.9	13.2	7.8	10.7	11.4	11.7	14.3	9.2	360.2	2.0	32.2		
18	5	2007	0.0	8.8	7.6	85.6	18.9	5.0	1.2	8.6	10.1	11.2	14.3	9.0	176.6	1.3	31.9		
19	5	2007	0.0	7.7	7.1	79.4	18.1	5.3	3.8	9.2	10.3	11.1	14.2	9.6	235.6	1.7	31.7		
20	5	2007	0.2	13.9	12.1	79	18.1	7.6	6.1	11.3	11.3	11.4	14.1	4.3	339.4	1.2	31.5		
21	5	2007	0.0	16.1	12.6	70.9	19.9	13.9	13.2	12.6	12.9	12.6	14.1	6.2	308.5	1.5	31.3		
22	5	2007	14.8	9.2	7.4	86.1	17.8	4.9	1.5	8.9	10.5	11.7	14.1	8.6	154.8	1.4	31.1		
23	5	2007	4.6	16.7	16.2	77	20.2	9.1	8.2	13.5	12.8	12.3	14.1	6.3	322.2	1.5	35.7		
24	5	2007	0.4	15.0	11.6	75.7	19.6	12.3	8.6	11.4	12.3	12.6	14.1	8.5	344.0	1.8	35.7		
25	5	2007	0.0	11.3	9.1	70.3	18.3	9.3	7.2	9.8	11.0	11.9	14.1	9.3	299.7	2.0	35.3		
26	5	2007	0.0	16.2	12.4	69.3	18.5	9.6	6.2	10.9	11.3	11.5	14.1	8.6	266.1	1.9	34.9		
27	5	2007	0.0	15.9	12.1	82.6	20.8	8.3	4.8	10.1	10.7	11.3	14.0	9.1	233.3	1.4	34.5		
28	5	2007	0.0	5.6	5.1	88.5	14.9	3.4	1.2	7.7	9.4	10.7	13.9	8.7	177.9	1.1	34.2		
29	5	2007	0.0	5.0	4.3	87.1	18.4	1.6	-0.9	6.4	8.3	9.8	13.9	9.0	161.2	1.2	33.9		
30	5	2007	0.0	6.6	6.0	90.2	18.2	3.3	1.0	6.8	8.3	9.5	13.7	8.7	149.6	1.1	33.8		
31	5	2007	0.0	13.3	10.7	69.3	17.6	4.5	-0.1	7.1	8.3	9.4	13.5	8.7	439.0	2.3	33.6		
Means				11.6	10.0	80.5	18.6	7.6	5.2	10.2	11.1	11.8	14.6	8.4	258.0	1.6	33.5		
Totals			71.0											259.2	7996.8	48.1			

Marlborough Research Centre Blenheim																		
Daily weather data is summarised at 9am																		
Date	Month	Year	Rain Daily	Air		RH Daily	Air		Grass		Soil Temperatures			Solar		Windrun Daily	Penman ET	Soil Moisture 5-35cm %
				Dry 9am	Wet 9am		Max Daily	Min Daily	Min Daily	Max Daily	10cm 9am	20cm 9am	30cm 9am	100cm 9am	Daily			
1	6	2007	1.4	14.7	11.4	81.6	18.3	13.0	9.9	10.3	10.4	10.3	12.9	4.8	317.1	1.1	33.4	
2	6	2007	0.0	14.5	10.9	73.8	18.6	11.9	9.9	11.2	11.7	11.6	12.9	8.1	227.3	1.4	33.2	
3	6	2007	0.0	5.6	5.4	88.4	13.1	4.6	1.6	8.5	10.0	10.8	13.3	6.9	170.3	0.9	33.1	
4	6	2007	0.0	3.7	3.2	69.1	16.7	1.5	-1.0	5.8	7.8	9.3	13.3	8.6	275.8	1.8	32.9	
5	6	2007	0.0	10.7	8.3	66.5	16.0	3.5	2.4	8.0	8.8	9.4	13.2	5.0	438.8	1.8	32.7	
6	6	2007	0.0	14.6	10.8	60.4	18.5	8.0	3.1	8.4	9.3	9.8	13.1	8.5	485.7	2.7	32.5	
7	6	2007	0.0	14.4	10.9	62.0	17.7	10.3	4.9	9.0	9.7	10.1	13.0	7.7	387.7	2.1	32.1	
8	6	2007	0.0	7.2	5.9	73.9	14.9	7.0	3.2	8.1	9.1	9.7	13.0	7.4	291.7	1.4	31.9	
9	6	2007	0.0	1.6	1.0	82.9	12.5	-0.8	-3.4	5.5	7.6	9.1	12.9	8.2	167.4	1.1	31.7	
10	6	2007	0.2	1.7	1.3	86.6	8.6	0.9	-1.0	4.9	6.5	7.9	12.8	2.9	206.9	0.5	31.6	
11	6	2007	2.2	6.7	5.5	94.1	10.4	1.6	0.9	6.9	7.6	8.1	12.7	2.4	217.7	0.3	31.5	
12	6	2007	0.0	5.2	4.3	86.3	15.7	3.4	1.4	6.4	7.8	8.6	12.5	8.2	158.6	1.0	31.6	
13	6	2007	0.0	1.7	1.5	88.1	13.4	0.7	-0.8	4.8	6.6	7.9	12.4	7.9	118.9	1.0	31.6	
14	6	2007	0.0	7.8	7.0	86.6	12.4	1.5	0.4	7.7	8.1	8.3	12.3	4.7	162.9	0.6	31.6	
15	6	2007	0.0	0.5	0.3	86.0	11.7	-0.8	-2.3	4.6	6.6	8.0	12.2	7.0	180.8	0.9	31.5	
16	6	2007	6.6	2.2	1.7	90.0	9.4	0.3	-0.9	5.0	6.3	7.3	12.1	3.1	192.7	0.4	31.8	
17	6	2007	0.0	0.8	0.4	82.8	10.7	0.3	-0.6	4.6	6.1	7.1	11.9	8.0	246.6	1.1	32.6	
18	6	2007	0.0	1.9	0.6	82.1	12.3	0.0	-1.4	3.3	5.1	6.5	11.7	7.7	215.0	1.0	32.8	
19	6	2007	0.0	1.2	0.0	82.9	13.3	-1.4	-2.8	2.5	4.3	5.8	11.7	7.9	194.1	1.0	32.8	
20	6	2007	5.4	2.2	1.4	91.4	7.3	-0.4	-2.8	3.1	4.3	5.4	11.5	2.7	262.5	0.4	33.0	
21	6	2007	2.6	7.2	6.2	75.9	15.6	2.1	1.8	5.8	6.2	6.3	11.3	5.9	301.3	1.3	34.4	
22	6	2007	1.4	7.6	6.3	73.7	11.7	6.3	1.9	6.4	7.1	7.4	11.2	8.0	396.0	1.6	35.0	
23	6	2007	0.0	6.4	4.3	68.3	11.6	2.3	0.0	4.6	5.9	6.9	11.0	7.4	370.2	1.6	35.2	
24	6	2007	0.0	11.5	7.7	68.4	15.2	2.0	-1.1	5.0	5.5	6.2	11.1	8.1	397.1	1.8	35.0	
25	6	2007	5.0	1.7	1.1	91.8	9.1	-0.1	-2.5	3.8	5.4	6.5	11.0	3.5	153.4	0.4	35.5	
26	6	2007	0.0	-0.4	-1.2	80.4	11.3	-2.9	-6.1	2.3	4.1	5.5	10.9	8.3	180.4	1.0	36.1	
27	6	2007	0.0	-0.4	-1.2	84.1	10.9	-2.3	-4.2	1.8	3.3	4.6	10.8	8.1	183.9	0.9	36.1	
28	6	2007	0.0	-0.6	-1.1	86.3	6.2	-1.2	-3.3	1.8	3.1	4.2	10.6	2.6	154.7	0.4	36.0	
29	6	2007	16.0	6.0	5.4	94.5	10.7	-0.7	-1.2	4.0	4.2	4.5	10.4	2.2	109.6	0.2	37.5	
30	6	2007	4.6	8.8	8.8	92.6	15.2	6.0	5.5	7.2	6.9	6.4	10.2	2.8	198.0	0.4	41.5	
Means				5.6	4.3	81.1	13.0	2.6	0.4	5.7	6.8	7.7	12.0	6.1	245.4	1.1	33.6	
Totals			45.4											184.2	7363.1	32.1		

Marlborough Research Centre Blenheim																			
Daily weather data is summarised at 9am																			
Date	Month	Year	Rain Daily	Air		RH Daily	Air		Grass		Soil Temperatures			Solar		Windrun Daily	Penman ET	Soil Moisture 5-35cm %	
				Dry 9am	Wet 9am		Max Daily	Min Daily	Min Daily	Daily	10cm 9am	20cm 9am	30cm 9am	100cm 9am	Energy Daily				mm
1	7	2007	1.4	15.2	13.2	90.2	18.0	8.5	5.5	9.0	8.5	7.8	10.1	4.1	181.3	0.6	39.9		
2	7	2007	0.0	10.7	9.9	77.8	14.9	9.3	6.0	9.2	9.3	9.0	10.2	3.7	282.6	0.9	39.2		
3	7	2007	0.0	11.2	8.7	71.9	15.4	8.9	7.5	8.4	8.8	8.9	10.2	6.3	340.7	1.4	38.5		
4	7	2007	8.6	5.6	4.4	91.9	12.4	4.1	2.0	6.6	7.6	8.2	10.5	4.4	158.3	0.6	39.5		
5	7	2007	6.4	3.7	3.6	89.5	11.2	3.2	0.6	6.6	7.7	8.2	10.5	4.0	163.0	0.5	40.8		
6	7	2007	0.0	6.4	5.1	79.8	7.3	3.6	2.8	7.2	7.9	8.1	10.6	3.2	286.8	0.7	40.5		
7	7	2007	0.0	1.6	0.9	81.5	8.3	1.4	-1.1	4.9	6.3	7.2	10.6	7.8	226.1	1.0	39.5		
8	7	2007	0.0	0.4	-0.7	82.2	11.3	-1.1	-3.5	3.0	4.8	6.1	10.6	8.4	204.6	1.0	38.9		
9	7	2007	2.8	0.3	-0.6	89.6	5.7	-1.7	-3.3	2.5	4.0	5.3	10.5	2.3	112.7	0.3	38.7		
10	7	2007	0.0	4.2	3.9	72.5	9.9	0.3	-0.3	4.6	5.1	5.5	10.3	3.0	331.5	0.9	38.9		
11	7	2007	0.0	8.9	5.9	76.9	12.0	4.2	3.9	5.7	6.0	6.2	10.1	5.6	314.9	1.1	38.3		
12	7	2007	0.0	1.1	0.4	79.6	12.0	-1.4	-4.0	3.7	5.3	6.2	9.9	8.8	174.2	1.1	38.0		
13	7	2007	0.0	0.0	-1.4	80.8	11.2	-2.4	-3.9	2.4	4.1	5.3	9.8	8.7	209.2	1.1	37.7		
14	7	2007	0.0	0.7	-0.4	81.8	11.6	-2.0	-5.1	2.1	3.6	4.7	9.9	8.7	202.0	1.1	37.3		
15	7	2007	0.0	0.4	-0.2	79	10.3	-1.2	-2.7	2.4	3.5	4.6	9.7	7.3	216.8	1.1	37.2		
16	7	2007	0.6	4.5	3.0	80.8	10.0	0.3	-0.2	4.1	4.7	5.1	9.6	3.5	186.9	0.6	36.9		
17	7	2007	2.0	5.8	5.4	84.1	11.2	4.4	4.7	6.0	6.2	6.1	9.5	2.1	269.2	0.5	35.5		
18	7	2007	0.0	8.8	7.7	80.7	12.6	5.7	5.7	6.9	7.0	6.8	9.4	6.1	183.5	1.0	35.0		
19	7	2007	1.8	6.4	5.0	91.5	10.6	5.1	4.7	6.9	7.3	7.4	9.4	3.9	122.6	0.5	34.7		
20	7	2007	4.4	7.9	7.6	96.1	11.5	6.3	6.6	8.2	8.3	8.0	9.0	2.8	149.5	0.3	37.7		
21	7	2007	0.0	5.6	5.1	84.7	13.7	3.9	2.4	7.5	8.4	8.5	9.6	7.7	157.6	1.0	38.2		
22	7	2007	0.0	1.9	1.1	74.9	12.4	-0.3	-3.7	5.7	7.3	8.1	9.8	9.8	199.6	1.3	37.4		
23	7	2007	0.0	4.4	2.1	65.1	13.2	-2.0	-5.0	3.6	5.3	6.5	9.8	5.8	388.6	1.6	35.4		
24	7	2007	0.0	9.2	6.9	67.2	16.4	4.3	2.8	5.5	6.1	6.6	9.9	9.4	305.9	2.0	35.0		
25	7	2007	0.0	11.9	8.8	69.3	17.2	8.2	3.8	7.5	7.5	7.4	9.8	5.5	465.0	1.8	34.4		
26	7	2007	0.0	12.9	9.7	61.6	18.3	7.1	2.6	8.1	8.2	8.1	9.8	9.8	458.6	2.7	34.0		
27	7	2007	0.0	13.8	9.8	63.1	18.0	9.5	7.0	8.4	8.5	8.4	9.8	10.0	438.4	2.6	34.1		
28	7	2007	0.0	12.3	8.8	77.2	17.9	8.9	5.8	8.1	8.5	8.6	9.9	9.4	264.8	1.7	35.3		
29	7	2007	19.2	6.8	6.0	91.8	11.6	5.0	3.1	7.7	8.5	8.8	10.0	3.5	140.6	0.5	36.0		
30	7	2007	1.4	8.4	8.3	97.2	11.8	6.7	6.0	8.8	9.0	8.8	10.1	3.9	121.9	0.4	41.1		
31	7	2007	5.0	9.2	8.8	93.1	13.3	6.9	3.6	8.6	8.9	8.9	10.1	4.0	136.9	0.5	40.8		
Means				6.5	5.1	80.8	12.6	3.7	1.8	6.1	6.8	7.2	10.0	5.9	238.5	1.0	37.6		
Totals			53.6											183.4	7394.3	32.4			

Marlborough Research Centre Blenheim																		
Daily weather data is summarised at 9am																		
Date	Month	Year	Rain Daily	Air		RH Daily	Air		Grass		Soil Temperatures			Solar		Windrun Daily	Penman ET	Soil Moisture 5-35cm %
				Dry 9am	Wet 9am		Max Daily	Min Daily	Min Daily	Max Daily	10cm 9am	20cm 9am	30cm 9am	100cm 9am	Daily			
1	8	2007	1.0	10.1	10.1	94.2	15.2	9.1	8.2	9.9	9.9	9.6	10.2	7.3	121.2	0.9	40.8	
2	8	2007	0.0	6.3	6.2	91.9	14.3	5.6	5.2	9.7	10.3	10.2	10.3	8.7	130.1	1.1	40.0	
3	8	2007	0.0	6.9	6.5	88.5	13.6	5.8	3.0	9.1	9.8	9.9	10.4	8.5	139.6	1.1	39.4	
4	8	2007	13.8	7.1	6.4	90.5	11.3	6.7	4.0	9.4	10.0	10.0	10.5	2.1	203.3	0.3	41.6	
5	8	2007	0.2	11.4	8.4	69.0	14.7	6.0	2.7	8.3	9.0	9.4	10.6	9.9	372.5	2.1	41.3	
6	8	2007	0.0	7.9	6.9	73.2	13.9	7.4	3.9	7.9	8.5	8.9	10.7	10.8	343.0	1.9	40.2	
7	8	2007	0.0	6.7	5.1	83.6	14.0	4.9	-0.5	7.0	7.9	8.5	10.7	11.5	201.1	1.5	39.4	
8	8	2007	0.0	3.7	2.8	81.3	13.3	0.8	-1.0	6.2	7.4	8.3	10.5	11.4	188.9	1.6	38.7	
9	8	2007	0.0	10.1	8.0	64.1	18.0	3.2	-1.0	6.3	7.2	8.0	10.6	10.3	414.8	2.6	38.2	
10	8	2007	0.0	14.8	11.8	65.3	17.8	9.8	8.4	9.1	9.0	8.8	10.4	9.0	457.3	2.6	37.5	
11	8	2007	0.0	16.0	12.3	68.8	17.9	13.3	10.1	10.6	10.3	9.7	10.5	7.9	550.7	2.4	36.8	
12	8	2007	0.0	9.2	7.2	82.5	13.5	8.3	7.6	10.0	10.3	10.2	10.6	10.2	173.1	1.3	36.3	
13	8	2007	0.0	2.5	1.8	75.4	11.4	-0.8	-3.6	6.5	8.1	9.1	10.7	8.6	184.6	1.3	35.9	
14	8	2007	0.0	7.5	4.6	72.3	10.4	2.3	-0.5	7.1	8.0	8.7	10.7	12.2	270.0	1.8	35.5	
15	8	2007	0.0	2.4	0.9	82.1	10.5	-0.5	-2.2	5.5	6.9	8.0	10.7	8.2	206.9	1.1	35.5	
16	8	2007	24.2	5.5	4.2	86.7	12.7	1.3	-0.4	5.9	6.9	7.7	10.6	8.0	136.8	1.1	36.6	
17	8	2007	0.6	7.5	7.3	88.6	15.2	5.3	4.1	7.9	8.2	8.2	10.6	9.9	167.9	1.3	42.2	
18	8	2007	0.2	9.3	8.3	84.9	15.0	4.8	0.1	7.6	8.4	8.8	10.5	4.9	178.5	0.8	40.8	
19	8	2007	2.0	6.0	5.4	88.1	13.0	2.7	-0.5	7.4	8.2	8.7	10.5	10.9	134.3	1.4	40.3	
20	8	2007	0.0	8.0	7.0	84.1	13.8	4.5	1.3	8.6	9.1	9.2	10.5	13.1	190.7	1.7	39.8	
21	8	2007	0.0	4.9	3.8	79.0	15.7	0.5	-1.1	6.9	8.1	8.9	10.5	13.0	155.6	1.8	39.2	
22	8	2007	0.0	6.5	5.8	78.0	13.6	3.9	-0.1	7.7	8.3	8.8	10.4	12.0	187.8	1.7	38.6	
23	8	2007	0.0	6.2	4.5	82.6	15.4	1.3	-0.7	7.1	8.2	8.8	10.4	13.8	197.6	1.8	38.1	
24	8	2007	0.0	6.1	4.8	82.2	15.3	1.1	-1.0	6.6	7.7	8.5	10.6	14.1	203.9	1.9	37.6	
25	8	2007	0.0	7.9	5.7	64.5	18.8	1.5	-1.1	6.7	7.7	8.4	10.6	14.6	267.8	2.6	37.2	
26	8	2007	0.0	8.3	5.8	79.8	16.3	1.9	-1.4	7.2	8.1	8.7	10.2	14.8	224.4	2.0	36.8	
27	8	2007	0.0	6.0	4.5	79.8	14.7	1.9	-0.5	6.7	7.7	8.5	10.5	12.1	227.5	1.8	36.4	
28	8	2007	0.6	8.6	5.9	85.2	16.9	4.5	3.0	8.0	8.7	8.9	10.4	12.9	194.1	1.7	35.9	
29	8	2007	0.0	6.9	5.7	65.4	19.0	1.4	-1.3	7.4	8.3	8.9	10.5	14.5	339.8	2.8	35.6	
30	8	2007	0.0	12.8	9.1	71.9	17.0	6.5	4.8	8.8	9.2	9.4	10.5	12.5	376.8	2.2	35.2	
31	8	2007	0.0	7.8	5.8	54.3	19.9	0.6	-2.9	7.2	8.1	8.9	10.7	14.4	445.9	3.7	34.9	
Means				7.8	6.2	78.6	14.9	4.1	1.5	7.7	8.5	8.9	10.5	10.7	244.7	1.7	38.1	
Totals			42.6											332.0	7586.5	53.9		

Marlborough Research Centre Blenheim																			
Daily weather data is summarised at 9am																			
Date	Month	Year	Rain		Air		RH	Air		Grass		Soil Temperatures			100cm 9am °C	Solar Energy Daily mj/m2	Windrun Daily km	Penman ET mm	Soil Moisture 5-35cm %
			Daily	mm	Dry 9am °C	Wet 9am °C		Max Daily °C	Min Daily °C	10cm 9am °C	20cm 9am °C	30cm 9am °C	Daily	10cm 9am °C					
1	9	2007	0.2	17.1	10.7	62.8	18.9	7.5	7.0	9.7	9.7	9.7	10.7	15.1	479.6	3.6	34.2		
2	9	2007	0.0	14.3	11.3	79.5	16.5	9.1	4.4	10.3	10.4	10.3	10.7	15.5	309.3	2.4	33.8		
3	9	2007	0.0	13.5	9.5	61.3	20.3	3.8	0.1	9.1	9.6	10.0	10.8	12.8	338.7	2.9	33.4		
4	9	2007	5.8	13.7	11.6	***	17.5	10.3	6.6	10.3	10.4	10.3	10.9	7.6	208.4	0.9	33.1		
5	9	2007	0.0	6.5	6.1	***	13.6	1.6	-1.4	8.3	9.3	10.0	11.0	17.5	252.2	1.9	33.2		
6	9	2007	0.0	4.0	3.7	89	11.5	-1.3	-2.9	6.8	8.2	9.3	11.0	16.9	230.4	2.0	33.2		
7	9	2007	0.0	5.3	3.4	67.2	15.6	-0.2	-1.8	6.3	7.5	8.6	11.0	17.1	277.7	2.8	33.1		
8	9	2007	0.0	10.3	6.6	72.4	17.1	4.0	0.7	7.8	8.4	9.0	11.0	17.1	236.7	2.5	32.8		
9	9	2007	0.6	6.7	4.9	75.2	16.2	2.0	-0.2	7.5	8.4	9.1	11.0	12.7	255.1	2.1	32.6		
10	9	2007	0.0	7.0	5.7	82.4	13.3	5.4	5.0	9.0	9.6	9.7	10.9	8.4	216.0	1.2	32.4		
11	9	2007	0.0	8.3	6.5	75.1	17.4	3.1	1.5	8.7	9.2	9.7	11.0	17.4	243.3	2.6	32.2		
12	9	2007	0.0	9.5	7.1	67.5	19.1	3.2	0.0	8.5	9.1	9.7	11.0	17.1	322.7	3.2	31.8		
13	9	2007	3.6	14.2	9.9	70.7	17.6	6.1	2.7	9.9	10.0	10.2	11.0	10.3	455.3	2.5	31.6		
14	9	2007	4.4	11.4	10.5	84.8	18.6	11.4	10.9	11.2	11.1	10.8	11.1	13.7	246.0	2.1	31.4		
15	9	2007	0.2	10.8	9.1	71.1	19.6	4.8	0.3	10.1	10.6	10.9	11.1	17.7	332.3	3.3	31.6		
16	9	2007	0.0	16.7	13.1	71	18.5	10.6	8.0	12.0	11.9	11.6	11.2	9.5	411.5	2.3	31.5		
17	9	2007	0.8	15.5	11.1	76.7	20.5	10.7	8.7	11.6	11.6	11.6	11.3	16.6	188.6	2.7	31.2		
18	9	2007	0.0	11.7	10.2	83.9	14.6	9.2	8.5	12.4	12.5	12.3	11.4	12.3	205.4	1.8	31.1		
19	9	2007	0.2	12.6	10.3	85.8	17.7	7.8	4.7	12.0	12.2	12.2	11.6	12.7	186.5	1.9	31.0		
20	9	2007	0.0	12.9	12.0	90.7	15.7	9.6	5.5	12.8	12.8	12.5	11.7	8.8	214.1	1.2	30.8		
21	9	2007	0.0	12.8	10.7	81.4	20.1	6.1	3.9	11.6	11.8	12.1	11.8	18.4	172.9	2.8	30.6		
22	9	2007	0.0	16.6	12.5	69.2	19.4	8.2	2.6	12.3	12.4	12.6	11.9	15.5	322.2	3.0	30.1		
23	9	2007	0.8	13.3	11.2	85.3	19.4	7.8	4.8	12.0	12.3	12.4	12.0	10.4	209.4	1.6	29.9		
24	9	2007	6.0	11.4	9.9	85.5	14.5	9.4	8.9	12.7	12.9	12.8	12.1	5.9	205.4	0.9	29.7		
25	9	2007	0.0	8.3	7.7	88	12.4	2.5	3.3	11.6	12.4	12.6	12.2	10.0	165.4	1.3	29.7		
26	9	2007	0.0	9.0	7.1	81.5	12.4	1.1	-1.8	9.7	10.5	11.4	12.3	17.8	237.2	2.3	29.8		
27	9	2007	0.0	7.8	5.9	77.7	15.1	-0.1	-2.0	8.9	9.9	10.9	12.3	21.1	217.0	2.9	29.7		
28	9	2007	0.0	9.2	7.0	67.2	18.2	2.1	-0.8	9.5	10.3	11.1	10.3	21.3	362.2	3.8	29.5		
29	9	2007	0.0	15.5	11.2	66.3	17.4	8.9	5.8	11.4	11.3	11.6	12.1	12.4	525.1	3.3	29.2		
30	9	2007	12.8	12.6	11.5	80.1	15.5	12.4	11.6	12.0	12.2	12.1	12.3	6.5	370.0	1.4	29.4		
Means				11.3	8.9	76.8	16.8	5.9	3.5	10.2	10.6	10.9	11.4	13.9	279.9	2.3	31.5		
Totals			35.4											416.0	8396.6	69.2			

Marlborough Research Centre Blenheim																			
Daily weather data is summarised at 9am																			
Date	Month	Year	Rain Daily	Air		RH Daily	Air		Grass		Soil Temperatures			Solar		Windrun Daily	Penman ET	Soil Moisture 5-35cm %	
				Wet 9am	Dry 9am		Max Daily	Min Daily	Min Daily	Daily	10cm 9am	20cm 9am	30cm 9am	100cm 9am	Energy Daily				mm
1	10	2007	5.0	14.2	11.0	75.5	16.8	10.6	9.1	11.2	11.7	12.0	11.4	11.1	425.0	2.2	31.2		
2	10	2007	0.8	12.5	8.3	68.4	17.1	9.3	6.5	10.2	11.1	11.8	11.6	18.5	459.2	3.4	31.7		
3	10	2007	0.0	8.6	6.7	70.2	14.1	6.4	3.2	9.1	10.3	11.2	12.4	13.9	281.5	2.2	31.7		
4	10	2007	11.4	8.3	6.0	73.2	15.8	1.0	-2.6	7.5	8.9	10.3	12.4	15.9	455.6	3.0	32.4		
5	10	2007	1.8	12.4	8.8	59.0	18.9	6.3	1.4	9.6	10.3	10.9	12.2	21.2	685.5	5.1	33.6		
6	10	2007	0.0	13.9	9.8	58.1	19.6	8.7	7.4	10.7	11.2	11.5	12.3	23.4	597.1	5.5	33.4		
7	10	2007	8.2	16.1	15.9	***	19.4	11.1	6.3	12.2	12.1	12.1	12.3	12.5	331.7	1.7	33		
8	10	2007	0.4	16.2	16.3	***	20.6	13.2	12.0	13.9	13.8	13.2	12.3	14.9	316.7	2.0	33.9		
9	10	2007	22.8	10.6	7.7	77.1	17.1	6.4	2.6	10.9	12.0	12.8	12.4	17.8	180.3	2.8	34.8		
10	10	2007	30.4	8.7	8.4	96.3	10.9	8.5	8.3	11.8	12.8	13.1	12.5	5.2	121.7	0.6	44.4		
11	10	2007	0.2	10.6	10.3	89.6	14.9	8.7	9.0	12.0	12.4	12.5	12.6	13.1	181.8	1.9	41.9		
12	10	2007	0.0	10.9	10.2	77.3	13.8	10.6	10.7	12.9	13.3	13.2	12.7	8.2	344.0	1.6	40.1		
13	10	2007	5.2	13.9	9.8	74.5	18.1	8.9	5.7	11.3	12.0	12.5	12.8	19.4	414.4	3.6	39.1		
14	10	2007	0.0	13.4	9.1	64.2	16.1	11.0	9.3	12.3	13.1	13.2	12.8	21.9	413.3	4.0	38.9		
15	10	2007	0.2	11.2	7.4	70.1	16.5	5.2	2.1	10.1	11.2	11.2	12.9	17.5	357.4	3.1	38.1		
16	10	2007	3.8	14.6	9.9	66.5	21.4	4.0	0.2	10.0	10.8	11.7	12.9	22.4	580.0	5.0	37.2		
17	10	2007	0.4	17.1	11.5	64.6	19.3	14.4	13.5	13.8	13.6	13.1	12.8	23.2	334.4	4.2	36.6		
18	10	2007	0.0	7.9	6.2	69.9	12.9	7.0	6.4	11.6	12.7	13.2	12.9	20.2	274.5	2.8	36.2		
19	10	2007	0.0	5.9	3.4	63.0	14.2	-0.4	-2.7	8.4	10.2	11.8	13.0	25.6	301.3	4.0	35.7		
20	10	2007	0.0	11.6	7.2	54.2	17.3	4.9	1.4	10.0	11.0	11.9	13.0	21.0	535.4	4.8	34.9		
21	10	2007	0.0	15.2	10.0	56.9	21.2	9.9	4.9	10.9	11.3	11.9	13.0	24.7	488.1	5.4	34.2		
22	10	2007	0.0	13.0	10.4	68.6	18.9	10.2	6.1	12.6	12.8	12.9	13.0	22.5	395.5	4.0	33.2		
23	10	2007	0.0	18.9	14.7	47.5	21.7	8.9	6.1	13.2	12.9	13.0	13.0	25.5	546.4	6.0	32.4		
24	10	2007	0.0	12.2	8.3	52.9	20.3	7.7	2.2	11.4	12.4	13.1	13.0	24.8	502.4	5.4	31.6		
25	10	2007	0.0	12.4	8.0	52.9	19.9	5.6	2.2	11.6	12.4	13.1	13.1	25.8	445.0	5.6	30.5		
26	10	2007	0.2	15.9	10.7	70.8	23.7	10.8	8.8	13.1	13.6	13.8	13.2	19.5	347.6	3.5	29.5		
27	10	2007	0.0	12.8	8.9	69.7	16.3	6.6	4.1	12.8	13.5	13.9	13.2	21.5	229.8	3.2	28.8		
28	10	2007	0.0	9.3	6.8	85.2	14.6	1.2	-1.2	11.1	12.2	13.2	13.3	26.1	239.5	3.4	28.1		
29	10	2007	0.0	13.0	10.6	***	23.4	3.1	0.4	11.4	12.0	12.9	13.4	28.0	355.6	4.2	27.3		
30	10	2007	0.0	19.3	19.2	63.1	25.0	10.7	4.4	14.0	13.9	14.0	13.4	25.5	369.3	5.1	26.1		
31	10	2007	0.0	18.0	12.8	66.4	23.6	9.4	2.1	14.2	14.4	14.6	13.5	26.7	448.0	5.5	24.4		
Means				12.9	9.8	68.1	18.2	7.7	4.8	11.5	12.1	12.6	12.7	19.9	385.7	3.7	33.7		
Totals			90.8											617.4	11958.0	114.8			

Marlborough Research Centre Blenheim																			
Daily weather data is summarised at 9am																			
Date	Month	Year	Rain Daily	Air		RH Daily	Air		Grass		Soil Temperatures			Solar		Windrun Daily	Penman ET	Soil	
				Daily	mm		Dry 9am	Wet 9am	Max Daily	Min Daily	Min Daily	Daily	10cm 9am	20cm 9am	30cm 9am			100cm 9am	Daily
1	11	2007	0.0	14.7	12.1	84.6	16.3	13.3	8.8	15.4	15.6	15.4	13.6	14.2	251.4	2.2	24.6		
2	11	2007	0.0	13.4	11.3	77	20.5	7.1	3.1	14.1	14.4	14.7	13.7	27.8	235.8	4.3	23.8		
3	11	2007	0.4	14.0	11.5	74.4	23.0	5.4	1.7	14.1	14.5	15.0	13.8	23.4	337.2	4.3	23.1		
4	11	2007	2.0	17.2	15.8	81.1	21.9	13.8	13.3	16.2	16.2	15.8	13.9	21.0	350.0	3.6	22.6		
5	11	2007	0.0	12.5	10.9	83.4	16.0	10.5	9.9	15.4	16.0	16.0	14.0	25.4	229.1	3.5	22.4		
6	11	2007	0.0	11.3	9.3	75.8	15.2	5.8	1.2	13.6	14.4	15.1	14.1	16.1	232.9	2.5	22.1		
7	11	2007	0.0	14.4	10.6	71.7	21.6	5.3	2.0	13.5	14.0	14.7	14.2	27.4	243.1	4.5	21.7		
8	11	2007	0.0	13.1	10.8	78	20.8	8.1	4.0	15.1	15.4	15.6	14.3	21.0	220.9	3.2	21.1		
9	11	2007	0.0	13.2	10.8	74.3	17.1	5.9	3.0	14.2	14.7	15.3	14.4	26.2	221.3	4.1	20.8		
10	11	2007	1.0	11.3	9.9	86.4	13.5	11.0	9.5	15.1	15.9	16.0	14.4	9.5	156.3	1.4	20.6		
11	11	2007	0.0	13.3	11.1	79.8	18.9	6.5	3.1	14.1	14.4	14.9	14.4	28.2	219.3	4.3	20.3		
12	11	2007	0.0	14.6	11.9	50.8	22.5	6.5	2.1	14.4	14.8	15.4	14.4	28.5	460.0	6.2	19.9		
13	11	2007	2.0	14.0	9.8	73.2	20.1	12.6	10.4	14.8	15.6	15.9	13.8	18.6	276.5	3.2	19.5		
14	11	2007	0.0	13.1	10.3	71.7	17.5	8.3	5.7	14.7	15.0	15.3	14.7	18.5	192.4	2.8	19.6		
15	11	2007	2.8	11.9	9.2	73.8	20.9	3.8	-0.5	13.1	13.6	14.5	14.6	26.0	295.5	4.3	19.4		
16	11	2007	0.6	10.2	9.5	84.7	16.0	6.8	3.2	13.5	14.4	15.1	14.7	17.5	178.2	2.5	19.3		
17	11	2007	0.0	13.5	11.4	77.1	17.5	5.6	2.5	13.5	13.8	14.6	14.7	30.5	235.2	4.6	19.3		
18	11	2007	0.0	15.5	12.4	79.4	22.8	6.7	3.2	14.6	14.7	15.3	14.5	29.5	237.6	4.9	19.3		
19	11	2007	0.0	16.6	14.1	84.3	20.3	11.0	9.0	17.0	16.8	16.6	14.7	29.3	231.1	4.5	19.1		
20	11	2007	0.0	14.9	13.1	73.2	24.2	10.3	6.9	17.2	17.1	17.1	14.8	30.1	210.2	5.1	18.8		
21	11	2007	0.0	17.6	14.5	65.6	26.2	11.0	7.0	17.8	17.8	17.9	14.9	31.0	306.2	5.9	18.6		
22	11	2007	0.0	19.8	14.7	80.8	22.9	10.3	5.7	17.9	18.0	18.2	15.1	30.8	236.4	5	18.3		
23	11	2007	0.0	19.3	15.6	57.8	26.0	9.1	6.8	18.2	18.2	18.5	15.3	31.3	376.5	6.6	18		
24	11	2007	0.0	20.7	15.3	78.1	25.3	14.9	12.9	19.7	19.3	19.0	15.5	30.1	272.4	5.2	17.8		
25	11	2007	0.0	19.1	16.0	55.9	31.7	13.9	12.7	20.3	20.0	19.7	15.7	31.9	329.6	6.5	17.7		
26	11	2007	0.0	14.8	10.8	72.2	22.5	6.1	1.1	18.4	19.1	19.7	15.8	31.3	224.5	5.1	17.4		
27	11	2007	0.0	16.1	12.8	68.3	20.9	8.0	4.1	18.4	18.8	19.4	16.0	25.6	250.9	4.2	17.2		
28	11	2007	0.0	14.2	9.5	74.3	17.1	6.1	1.8	17.5	18.3	18.9	16.2	23.0	260.6	3.5	17.1		
29	11	2007	0.0	14.2	11.1	65.7	22.9	4.6	0.7	16.5	17.1	18.1	16.3	26.7	324.8	5.0	16.9		
30	11	2007	0.0	14.1	10.9	76.9	18.8	12.3	9.9	17.6	18.4	18.7	16.3	24.8	224.9	3.8	16.8		
Means				14.7	11.9	74.3	20.7	8.7	5.5	15.9	16.2	16.5	14.8	25.2	260.7	4.2	19.8		
Totals			8.8											754.8	7820.8	126.8			

Marlborough Research Centre Blenheim																		
Daily weather data is summarised at 9am																		
Date	Month	Year	Rain Daily	Air		RH Daily	Air		Grass		Soil Temperatures			Solar		Windrun Daily	Penman ET	Soil Moisture 5-35cm %
				mm	Dry 9am		Wet 9am	Max Daily	Min Daily	Min Daily	10cm 9am	20cm 9am	30cm 9am	100cm 9am	Daily			
1	12	2007	0.0	14.9	11.8	75	21.8	6.6	3.3	17.4	17.9	18.5	16.3	27.4	214.9	4.6	16.8	
2	12	2007	0.0	16.1	13.8	81.5	20.0	13.8	13.3	20.0	20.1	19.9	16.4	25.3	214.0	4.0	16.7	
3	12	2007	0.0	16.9	14.2	74.4	26.2	9.1	5.9	19.1	19.2	19.5	16.5	30.0	300.5	5.3	16.8	
4	12	2007	0.0	15.6	14.0	85.4	19.2	13.4	13.3	20.0	20.7	20.7	16.5	26.7	216.8	4.1	16.7	
5	12	2007	0.0	17.9	14.0	56.5	25.3	8.8	5.5	19.3	19.7	20.0	16.7	28.3	444.4	6.4	16.4	
6	12	2007	0.0	19.0	14.2	68.8	19.5	15.5	13.6	21.0	21.0	20.7	16.8	20.8	435.3	4.0	16.4	
7	12	2007	0.0	12.7	9.2	64.8	18.0	10.8	8.8	17.6	18.9	19.5	16.9	27.7	296.4	4.7	16.3	
8	12	2007	0.0	15.3	11.2	79.3	20.5	9.1	7.9	18.6	19.1	19.4	16.9	18.8	228.8	3.2	16.3	
9	12	2007	4.2	17.6	15.0	80.9	26.5	11.8	10.3	19.3	19.6	19.7	17.0	17.4	195.8	3.1	16.4	
10	12	2007	0.0	17.9	16.6	71.6	23.9	15.8	15.4	20.1	20.6	20.4	16.9	12.5	297.2	2.9	16.4	
11	12	2007	0.0	20.6	17.2	69.4	23.2	17.9	17.4	19.9	19.9	19.7	17.1	15.9	455.4	3.9	16.4	
12	12	2007	0.2	21.3	16.9	70.4	23.2	18.8	17.6	20.6	19.9	19.6	17.1	17.6	416.2	4.0	16.5	
13	12	2007	0.0	22.3	18.9	82.4	24.4	17.1	15.3	20.9	20.0	19.7	17.1	21.0	266.2	3.6	16.5	
14	12	2007	0.0	14.8	13.1	84.2	18.6	14.1	14.1	19.5	20.4	20.4	17.2	17.4	222.3	2.8	16.5	
15	12	2007	0.0	18.2	16.0	63.2	27.7	14.2	13.6	20.5	20.1	19.9	17.2	27.7	372.0	5.9	16.6	
16	12	2007	0.0	22.0	17.3	64.3	24.3	17.8	17.0	22.4	21.8	21.4	17.3	31.4	567.5	7.1	16.5	
17	12	2007	1.2	21.8	17.9	75.9	25.4	19.1	17.7	23.0	22.4	22.1	17.4	27.6	308.9	5.2	16.4	
18	12	2007	49.4	17.2	16.2	95.4	17.3	17.3	17.2	22.3	23.1	22.9	17.6	3.9	196.5	0.5	28.9	
19	12	2007	1.2	12.2	11.9	91.2	15.2	11.7	11.6	16.3	17.5	18.5	17.7	10.7	176.7	1.5	33.7	
20	12	2007	0.0	13.8	12.4	80.9	18.5	8.2	5.4	15.6	16.3	17.3	17.7	17.8	201.7	2.8	33.3	
21	12	2007	0.0	14.1	12.1	80.4	16.8	8.1	4.8	15.8	16.6	17.4	17.6	17.0	224.1	2.7	32.1	
22	12	2007	0.0	15.1	12.2	76.7	19.5	8.7	6.6	15.4	16.0	16.9	17.4	33.0	239.8	5.2	31.1	
23	12	2007	0.0	16.2	13.4	63.8	24.5	8.4	6.3	16.6	16.9	17.8	17.3	30.9	334.9	6.0	30.0	
24	12	2007	0.8	16.4	14.8	74.8	23.4	14.8	12.5	17.8	18.6	18.9	8.2	23.4	369.8	4.6	30.0	
25	12	2007	0.4	17.0	16.4	65.4	24.4	16.3	14.1	19.5	19.6	19.5	17.3	27.3	428.6	5.6	29.2	
26	12	2007	4.4	16.3	13.6	88.2	18.2	12.5	9.8	17.5	18.4	19.3	17.3	14.7	224.3	2.1	28.8	
27	12	2007	1.2	13.7	11.4	65.9	22.1	5.4	3.8	14.2	15.5	17.1	17.4	30.3	396.4	5.8	28.3	
28	12	2007	0.0	13.8	11.6	80	16.5	12.0	10.1	17.1	17.7	18.1	17.4	14.0	207.0	2.2	28.0	
29	12	2007	0.0	14.1	12.0	75.7	23.1	5.9	2.8	15.0	15.7	16.9	17.4	31.5	210.8	5.2	27.4	
30	12	2007	0.0	17.0	14.7	74.6	26.4	9.2	5.1	17.6	17.8	18.4	17.3	30.7	241.0	5.5	26.5	
31	12	2007	0.0	17.7	14.5	78.9	19.6	15.7	14.4	20.2	20.4	20.3	17.3	26.7	262.9	4.2	25.6	
Means				16.7	14.1	75.5	21.7	12.5	10.8	18.7	19.1	19.4	16.8	22.7	295.7	4.2	22.4	
Totals			63.0											705.0	9167.1		228.7	