

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

			Rain	RH	Max	Min	Grass	Soil Temperatures				Rad	Windrun	Max	Soil	Sun	Growing	
			Daily	24hr	Daily	Daily	Min	10cm	20cm	30cm	100cm	Daily	Daily	Wind	Penman	Moisture	Sun	Degree
			mm	mean	°C	°C	°C	9am	9am	9am	9am	mj/m2	km	Speed	ET	5-35cm	Daily	Days>10
								°C	°C	°C	°C		km/hr	mm	%	hours		
1	1	2010	0.0	73.1	32.4	10.2	7.6	20.2	20.5	21.0	18.6	31.0	392.7	50.5	10.0	14.9	13.3	11.3
2	1	2010	0.0	75.5	28.4	17.8	13.5	21.8	22.6	22.4	18.6	24.8	366.5	54.1	5.4	15.0	6.5	13.1
3	1	2010	0.0	47.9	23.7	13.4	11.8	21.4	22.4	22.4	18.7	16.2	415.6	61.5	4.4	14.7	1.3	8.5
4	1	2010	0.0	77.5	24.0	18.1	16.1	21.6	21.9	21.8	18.8	33.6	512.6	81.7	7.4	14.6	13.0	11.1
5	1	2010	0.0	69.6	23.4	12.6	9.2	21.4	21.7	21.8	18.8	32.5	247.9	33.8	4.5	14.0	12.3	8.0
6	1	2010	0.0	66.7	27.3	10.0	5.4	21.0	21.7	22.2	18.9	29.2	409.6	58.1	7.1	14.6	13.1	8.7
7	1	2010	0.0	52.7	24.4	15.3	12.1	20.9	22.1	22.4	19.0	27.6	476.7	59.0	5.6	14.1	7.4	9.8
8	1	2010	0.0	76.9	23.1	12.2	7.7	20.8	21.8	22.2	19.0	31.3	336.7	72.5	5.9	13.9	11.5	7.6
9	1	2010	0.0	59.7	21.9	9.6	6.8	19.7	21.4	21.9	19.1	31.8	308.2	43.3	5.3	13.7	9.5	5.7
10	1	2010	24.4	93.8	21.0	12.5	10.8	21.2	21.9	22.2	19.1	11.4	277.5	56.8	2.6	16.9	2.6	6.7
11	1	2010	0.2	85.8	17.6	10.1	10.0	16.3	18.5	19.7	19.1	21.1	189.3	31.1	2.3	18.7	3.6	3.8
12	1	2010	0.0	90.2	18.2	9.1	7.9	16.3	17.7	18.9	19.1	15.7	143.6	28.0	2.3	20.0	1.4	3.6
13	1	2010	0.0	86.0	16.8	12.6	12.5	16.9	18.1	18.7	18.9	15.0	173.0	25.8	1.9	19.8	2.3	4.7
14	1	2010	0.0	75.5	23.7	10.2	8.4	16.5	17.5	18.3	18.8	28.0	229.3	44.6	3.4	19.6	8.7	7.0
15	1	2010	0.0	59.6	23.4	10.5	7.0	17.9	19.0	19.5	18.6	28.1	257.5	43.5	5.2	19.1	9.5	7.0
16	1	2010	0.0	84.7	22.5	15.4	15.0	20.3	20.8	20.7	18.6	9.9	239.8	36.3	3.9	19.4	0.0	9.0
17	1	2010	0.0	83.5	23.4	13.4	13.2	18.8	19.7	20.0	18.6	26.1	196.7	36.1	3.8	19.0	5.7	8.4
18	1	2010	0.0	82.4	19.7	13.0	11.8	20.7	21.2	21.2	18.6	26.0	231.9	35.4	2.5	18.5	7.8	6.3
19	1	2010	0.0	76.5	27.2	14.4	14.4	21.3	21.5	21.4	18.7	29.9	205.6	35.3	5.3	17.7	12.1	10.8
20	1	2010	2.0	94.6	27.1	17.0	14.5	22.5	22.9	22.6	18.8	20.6	232.1	38.1	4.5	17.5	4.2	12.0
21	1	2010	11.6	82.4	23.2	17.9	17.1	22.4	23.2	22.9	19.0	14.8	157.3	27.5	2.2	17.9	1.3	10.5
22	1	2010	0.0	89.2	24.1	14.6	13.1	20.2	21.0	21.5	19.1	21.2	151.0	34.9	2.9	18.3	5.5	9.3
23	1	2010	1.8	93.7	24.2	15.1	14.1	20.3	21.1	21.4	19.2	13.4	163.9	34.9	3.1	18.1	1.8	9.6
24	1	2010	0.6	79.6	24.1	14.6	14.3	19.3	20.3	20.6	19.2	23.0	186.8	38.1	2.8	18.3	5.6	9.3
25	1	2010	0.0	85.3	19.2	13.6	12.7	19.3	20.6	21.0	19.2	18.2	170.0	24.1	2.7	18.3	4.4	6.4
26	1	2010	0.0	86.9	21.9	10.8	9.0	18.0	19.1	19.9	19.2	26.7	191.4	31.2	2.8	18.1	7.4	6.3
27	1	2010	0.0	85.9	28.5	12.1	9.5	19.7	20.5	20.9	19.2	30.8	205.3	39.5	5.8	17.1	13.8	10.3
28	1	2010	0.0	93.0	24.2	14.0	11.5	21.3	22.1	22.2	19.2	28.8	202.6	33.8	3.4	17.3	12.7	9.1
29	1	2010	0.0	76.1	22.7	15.2	13.1	22.1	23.0	22.9	19.2	26.1	187.5	28.3	2.8	16.7	8.3	9.0
30	1	2010	0.0	61.8	29.7	12.1	10.3	21.1	22.3	22.7	19.4	29.7	205.2	29.6	6.1	16.5	12.1	10.9
31	1	2010	0.0	70.0	22.0	14.4	11.7	22.4	23.3	23.5	19.5	15.5	275.1	37.3	4.1	15.9	2.4	8.2
Means				77.9	23.6	13.3	11.4	20.1	21.0	21.3	19.0	23.8	256.1	41.4	4.3	17.0	7.1	8.5
Totals			40.6									737.7	7938.9		131.9		221.1	262.2
Maximum					32.4	18.1	17.1					33.6	512.6	81.7	10.0	20.0	13.8	13.1
Minimum					16.8	9.1	5.4					9.9	143.6	24.1	1.9	13.7	0.0	3.6

Marlborough Research Centre Blenheim																		
Daily weather data is summarised at 9am																		
							Grass	Soil Temperatures						Max		Soil		Growing
			Rain	RH	Max	Min	Min	10cm	20cm	30cm	100cm	Rad	Windrun	Wind	Penman	Moisture	Sun	Degree
			Daily	24hr	Daily	Daily	Daily	9am	9am	9am	9am	Daily	Daily	Speed	ET	5-35cm	Daily	Degree
			mm	mean	°C	°C	°C	°C	°C	°C	°C	mj/m2	km	km/hr	mm	%	hours	Days>10
1	3	2010	0.0	82.6	24.3	14.4	10.4	20.0	21.5	21.9	19.8	19.4	482.1	58.3	4.8	13.4	6.4	9.3
2	3	2010	0.0	65.4	24.9	17.3	17.5	21.1	21.9	21.8	19.8	14.1	348.8	50.5	3.8	13.2	2.7	11.1
3	3	2010	0.0	67.2	25.6	14.5	12.9	19.4	20.9	21.5	19.8	23.0	460.6	60.1	6.1	13.2	11.5	10.0
4	3	2010	0.0	75.2	23.8	11.1	8.4	18.5	20.6	21.3	19.8	25.1	217.7	26.9	4.5	12.8	12.6	7.4
5	3	2010	7.2	88.6	23.4	9.1	5.9	18.0	20.2	21.1	19.8	23.2	269.9	37.9	3.2	12.8	11.0	6.2
6	3	2010	0.0	84.9	19.6	13.8	14.1	19.0	20.7	21.2	19.8	11.0	187.2	33.2	1.8	12.7	0.7	6.7
7	3	2010	0.0	90.6	21.4	12.1	8.1	17.0	18.9	19.8	19.8	23.8	198.3	26.4	3.5	13.1	11.5	6.7
8	3	2010	0.0	91.0	20.2	8.4	5.9	15.4	18.0	19.4	19.7	23.2	202.3	30.5	2.9	13.0	12.0	4.3
9	3	2010	0.0	90.7	20.1	8.6	6.6	16.3	18.2	19.3	19.6	22.9	193.7	26.6	2.7	13.2	10.0	4.3
10	3	2010	0.0	77.2	26.5	9.1	6.0	16.4	18.5	19.5	19.5	23.1	182.3	31.8	3.8	13.6	12.2	7.8
11	3	2010	2.6	89.0	26.3	12.5	9.3	18.4	19.6	20.1	19.4	16.7	180.1	44.9	3.1	13.5	7.1	9.4
12	3	2010	3.0	81.5	22.6	10.3	9.3	17.0	19.1	20.0	19.4	18.3	193.7	58.3	2.7	13.4	7.0	6.4
13	3	2010	0.0	84.5	22.5	3.2	-0.1	12.2	15.7	17.9	19.4	19.6	214.1	26.6	3.5	13.4	10.1	2.9
14	3	2010	0.0	71.7	27.7	8.2	8.9	14.8	16.7	17.7	19.3	19.2	220.6	36.4	4.8	14.1	8.3	7.9
15	3	2010	0.0	85.0	23.5	10.9	7.8	16.3	18.3	18.9	19.1	20.9	195.1	32.3	3.6	13.6	8.9	7.2
16	3	2010	4.4	91.9	27.8	10.6	7.0	17.1	18.8	19.3	19.0	22.2	294.6	54.3	6.1	13.8	11.2	9.2
17	3	2010	0.0	79.4	17.3	9.8	9.5	17.1	19.3	19.9	19.0	21.9	233.7	48.5	2.6	13.5	9.6	3.5
18	3	2010	0.0	83.6	24.2	2.8	1.3	11.7	15.1	17.3	19.0	15.9	239.4	37.9	4.6	13.5	6.3	3.5
19	3	2010	0.0	74.4	21.3	6.1	2.6	13.0	15.5	16.9	18.9	19.7	197.6	35.7	2.6	13.4	9.6	3.7
20	3	2010	0.0	73.5	26.4	9.0	6.9	15.4	17.1	17.9	18.8	13.9	270.0	36.4	4.8	13.5	6.3	7.7
21	3	2010	0.0	76.1	27.8	13.7	10.1	17.4	18.1	18.4	18.7	15.4	386.6	59.9	5.7	13.8	8.3	10.7
22	3	2010	0.0	65.8	24.6	16.4	13.3	18.9	19.3	19.2	18.6	16.0	354.5	54.0	3.5	13.6	4.8	10.5
23	3	2010	0.4	74.0	23.9	11.2	6.7	16.7	18.5	19.2	18.6	20.6	381.2	45.6	4.2	13.8	10.0	7.5
24	3	2010	15.2	51.5	20.3	16.0	12.0	17.9	18.8	19.1	18.6	8.8	361.5	61.9	2.3	18.1	3.4	8.2
25	3	2010	0.0	55.1	21.2	8.7	3.9	11.1	14.5	16.6	18.6	20.4	455.0	64.4	6.0	18.7	11.5	5.0
26	3	2010	0.0	49.0	23.6	10.9	7.9	13.8	14.9	16.0	18.5	19.0	309.0	51.4	4.8	19.3	11.3	7.3
27	3	2010	0.0	76.1	25.5	12.3	9.5	15.7	16.7	17.2	18.4	18.5	243.7	48.7	4.7	19.1	8.8	8.9
28	3	2010	0.0	69.5	16.4	11.5	8.7	15.7	17.3	17.8	18.3	8.6	237.7	34.8	2.4	18.7	0.4	4.0
29	3	2010	0.0	80.0	19.1	7.6	3.2	12.8	15.1	16.3	18.2	16.1	150.5	23.9	3.2	18.8	8.8	3.4
30	3	2010	0.0	63.5	21.5	7.7	4.7	12.6	14.9	16.2	18.1	16.9	354.7	45.1	3.6	18.9	10.6	4.6
31	3	2010	0.0	66.6	22.9	12.0	11.1	15.0	16.3	16.8	18.0	17.7	383.5	47.5	4.6	18.2	11.0	7.4
Means				76.0	23.1	10.6	8.0	16.2	18.0	18.9	19.1	18.5	277.4	42.9	3.9	14.8	8.5	6.9
Totals			32.8									574.9	8599.7		120.5		263.9	212.7
Max					27.8	17.3	17.5						482.1	64.4	6.1	19.3	12.6	11.1
Min					16.4	2.8	-0.1						150.5	23.9	1.8	12.7	0.4	2.9

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

			Rain	RH	Max	Min	Grass	Soil Temperatures				Rad	Windrun	Max	Soil	Sun	Growing	
			Daily	24hr	Daily	Daily	Daily	10cm	20cm	30cm	100cm	Daily	Daily	Speed	Penman	Moisture	Sun	Degree
			mm	mean	°C	°C	°C	9am	9am	9am	9am	mj/m2	km	km/hr	ET	5-35cm	Daily	Days>10
																	hours	
1	4	2010	0.0	92.2	25.0	13.9	10.0	15.4	16.9	17.4	17.9	16.7	224.3	33.2	4.7	18.2	10.6	9.4
2	4	2010	0.0	71.3	24.6	8.6	4.8	14.1	16.6	17.5	17.9	17.9	309.8	38.9	4.1	17.9	11.0	6.6
3	4	2010	0.0	64.8	22.9	11.4	9.4	14.5	16.7	17.5	17.9	19.2	456.0	50.1	5.2	17.4	11.0	7.1
4	4	2010	0.0	76.1	20.4	14.6	13.6	17.5	17.5	17.7	17.9	8.7	226.6	40.1	2.4	17.2	3.3	7.5
5	4	2010	0.0	87.3	16.5	10.9	10.6	15.1	16.4	17.1	17.9	9.5	130.9	23.4	2.1	17.0	2.3	3.7
6	4	2010	0.0	81.0	17.0	8.1	6.3	14.1	15.5	16.3	17.9	8.8	197.9	36.4	2.0	17.1	0.9	2.5
7	4	2010	0.0	75.9	16.8	5.4	0.9	13.3	14.6	15.7	17.8	14.0	223.8	37.1	2.3	16.5	6.7	1.1
8	4	2010	0.0	77.9	16.4	3.7	1.7	12.0	13.5	15.0	17.7	14.4	215.0	29.2	2.4	16.2	6.5	0.1
9	4	2010	0.0	82.7	19.5	2.3	-0.4	11.2	12.8	14.4	17.6	17.1	170.1	23.4	2.5	16.2	10.8	0.9
10	4	2010	0.0	77.0	17.7	4.0	1.5	11.7	13.0	14.3	17.4	16.8	199.4	25.6	2.2	16.0	10.8	0.9
11	4	2010	0.0	55.2	23.3	3.4	0.7	11.7	13.0	14.3	17.3	17.0	289.5	39.7	4.6	15.6	10.8	3.3
12	4	2010	0.0	64.3	21.5	8.6	3.1	13.7	14.3	15.1	17.2	12.0	384.4	45.1	4.4	15.8	7.3	5.0
13	4	2010	3.4	65.0	20.6	13.0	11.3	15.4	15.4	15.6	17.1	8.4	357.7	48.7	3.5	15.9	2.3	6.8
14	4	2010	0.0	61.8	23.0	15.5	13.1	15.5	15.6	15.9	17.0	14.4	533.7	52.6	4.9	15.9	9.2	9.2
15	4	2010	0.0	93.7	23.5	15.9	14.0	14.8	15.4	15.8	17.0	13.1	402.1	46.1	4.5	15.7	7.9	9.7
16	4	2010	0.0	86.0	16.7	9.4	7.8	13.4	15.1	15.8	17.0	14.9	198.3	29.9	1.1	15.2	7.8	3.0
17	4	2010	0.0	91.7	20.2	3.2	0.2	11.5	12.8	14.4	17.0	11.4	145.5	18.6	1.4	15.6	7.0	1.7
18	4	2010	0.0	97.8	18.0	3.8	0.0	10.8	12.3	13.8	16.9	15.0	273.7	41.9	2.0	15.6	10.3	0.9
19	4	2010	0.0	84.6	23.4	8.2	5.1	14.1	13.8	14.2	16.8	13.4	279.4	42.9	1.3	15.3	9.1	5.8
20	4	2010	0.0	90.7	20.1	7.3	3.6	13.0	14.3	15.0	16.7	14.4	173.3	22.1	1.7	15.4	10.1	3.7
21	4	2010	0.0	81.6	19.0	5.6	3.0	11.9	13.4	14.5	16.6	14.5	171.2	23.4	1.7	14.9	10.3	2.3
22	4	2010	0.0	90.7	23.1	4.0	0.8	11.1	12.9	14.2	16.6	14.5	183.5	25.0	1.9	15.5	10.4	3.6
23	4	2010	0.0	72.3	25.1	4.3	1.7	11.4	12.8	14.0	16.5	14.0	339.3	48.2	3.9	14.5	10.1	4.7
24	4	2010	0.0	88.1	18.9	12.0	7.6	14.6	14.7	15.0	16.4	11.4	203.9	35.0	2.1	15.7	7.0	5.4
25	4	2010	0.0	63.8	22.3	10.2	6.9	14.4	15.2	15.5	16.4	9.4	465.1	53.4	3.8	14.9	3.5	6.2
26	4	2010	0.0	96.9	20.3	15.7	14.7	16.2	16.1	16.0	16.4	4.6	146.5	32.1	2.1	15.1	1.3	8.0
27	4	2010	1.6	69.9	19.4	10.6	6.9	14.6	15.7	16.0	16.4	4.0	245.5	40.6	1.5	14.6	1.0	5.0
28	4	2010	0.0	65.7	19.9	13.1	10.4	13.2	14.7	15.2	16.4	8.4	366.6	50.9	3.3	15.0	2.9	6.5
29	4	2010	0.0	62.2	22.5	10.3	4.5	13.2	14.0	14.7	16.4	12.6	439.2	45.7	4.4	14.8	8.8	6.4
30	4	2010	2.2	84.1	20.6	16.6	14.3	16.4	15.6	15.5	16.4	4.9	293.2	47.6	2.0	14.5	2.4	8.6
Means				78.4	20.6	9.1	6.3	13.7	14.7	15.4	17.1	12.5	274.8	37.6	2.9	15.8	7.1	4.9
Totals			7.2									375.3	8245.4		85.8		213.2	145.8
Max					25.1	16.6	14.7						533.7	53.4	5.2	18.2	11.0	9.7
Min					16.4	2.3	-0.4						130.9	18.6	1.1	14.5	0.9	0.1

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

			Rain	RH	Max	Min	Grass	Soil Temperatures				Rad	Windrun	Max	Soil	Sun	Growing	
			Daily	24hr	Daily	Daily	Min	10cm	20cm	30cm	100cm	Daily	Daily	Wind	Penman	Moisture	Sun	Degree
			mm	mean	°C	°C	°C	9am	9am	9am	9am	mj/m2	km	Speed	ET	5-35cm	Daily	Days>10
								°C	°C	°C	°C		km/hr	mm	%	hours		
1	5	2010	2.2	94.8	15.8	7.5	2.9	10.8	13.1	14.3	16.3	5.3	137.2	32.1	1.0	14.6	0.5	1.7
2	5	2010	0.0	67.3	15.7	5.3	0.4	9.7	11.9	13.1	16.3	11.9	171.6	28.2	1.5	15.0	8.6	0.5
3	5	2010	0.0	71.0	19.8	2.8	-0.4	8.1	10.3	12.0	16.2	10.4	346.8	58.3	3.5	14.8	8.0	1.3
4	5	2010	0.0	84.9	17.8	4.3	-2.0	8.7	10.9	12.3	16.0	11.4	167.2	23.6	2.1	14.2	9.4	1.0
5	5	2010	0.0	78.0	15.8	4.9	1.9	9.7	11.2	12.2	15.9	11.2	179.6	23.0	1.6	14.8	6.9	0.3
6	5	2010	0.0	71.0	18.9	2.5	-1.7	7.7	9.8	11.4	15.7	11.8	411.3	40.8	2.9	14.8	9.4	0.7
7	5	2010	0.0	74.7	19.6	10.1	9.3	11.8	12.3	12.5	15.6	6.9	327.3	43.1	2.4	14.8	2.6	4.8
8	5	2010	0.0	92.9	19.3	12.7	11.6	13.8	13.6	13.5	15.5	5.4	259.1	37.0	2.0	14.6	0.4	6.0
9	5	2010	0.0	86.5	18.4	12.6	11.3	13.7	14.1	14.0	15.4	8.3	168.5	24.6	1.1	14.9	3.2	5.5
10	5	2010	0.0	86.3	21.2	4.9	2.3	10.1	12.5	13.6	15.4	11.5	168.9	24.4	2.4	14.8	9.7	3.0
11	5	2010	0.0	78.8	16.6	3.4	-0.2	8.4	11.0	12.5	15.4	11.3	186.4	22.4	1.5	14.7	9.5	0.0
12	5	2010	5.8	87.2	20.5	4.0	1.5	8.2	10.3	11.7	15.4	8.5	144.2	31.2	2.0	14.4	5.9	2.2
13	5	2010	0.6	93.5	21.3	7.6	8.7	14.3	13.3	12.9	15.3	9.4	201.7	29.6	2.1	14.8	7.4	4.4
14	5	2010	3.8	95.6	19.5	9.3	6.9	11.1	12.5	13.1	15.2	6.6	137.0	26.7	1.4	14.9	3.3	4.4
15	5	2010	25.8	95.1	14.6	10.6	10.1	12.2	13.0	13.3	15.2	4.9	127.1	31.4	0.6	25.2	0.9	2.6
16	5	2010	17.4	95.5	13.2	10.5	9.3	12.2	12.8	13.0	15.1	1.8	108.3	19.0	0.3	31.9	0.0	1.8
17	5	2010	0.2	91.6	16.4	10.5	9.3	12.1	12.8	13.1	15.1	7.3	138.4	21.2	0.9	33.3	2.6	3.5
18	5	2010	4.2	95.4	15.8	10.4	9.3	12.6	13.4	13.5	15.1	8.9	134.0	20.2	1.1	31.0	4.3	3.1
19	5	2010	1.0	93.5	13.4	7.2	4.6	10.6	12.2	13.0	15.0	4.2	92.0	16.4	0.5	34.0	0.1	0.3
20	5	2010	0.6	94.7	12.9	8.5	8.6	12.2	12.9	13.1	15.0	2.8	108.0	19.2	0.5	34.1	0.0	0.7
21	5	2010	0.0	89.2	13.3	7.3	5.5	10.7	12.3	12.9	15.0	4.2	153.6	18.8	0.9	31.8	0.0	0.3
22	5	2010	0.0	81.8	16.4	2.7	0.4	7.8	10.6	11.9	15.0	9.5	210.9	31.8	1.6	31.8	9.0	0.0
23	5	2010	2.2	94.7	17.7	5.6	1.9	8.9	10.1	11.1	14.9	6.0	150.6	23.2	1.4	31.6	2.2	1.7
24	5	2010	31.8	95.6	13.3	9.8	8.8	11.0	11.7	11.8	14.7	2.1	112.9	20.0	0.3	39.8	0.0	1.5
25	5	2010	43.8	95.4	11.3	10.3	10.1	11.7	12.2	12.2	14.6	0.8	212.7	34.6	0.2	39.9	0.0	0.8
26	5	2010	1.0	96.0	14.9	6.9	3.7	9.8	11.0	11.5	14.5	5.6	88.7	13.3	0.6	38.5	2.7	0.9
27	5	2010	0.4	89.0	10.3	5.0	2.6	8.7	10.5	11.3	14.4	2.4	132.4	28.9	0.8	37.8	0.0	0.0
28	5	2010	24.6	90.8	7.7	4.6	3.8	7.9	9.6	10.5	14.3	1.8	122.5	17.4	0.3	41.7	0.0	0.0
29	5	2010	1.6	96.2	12.3	5.3	5.1	8.1	9.2	9.8	14.1	3.4	160.7	37.2	0.7	39.4	0.4	0.0
30	5	2010	0.2	90.9	13.8	2.5	-0.4	6.8	9.2	10.1	13.9	8.9	146.3	27.8	1.1	38.5	8.2	0.0
31	5	2010	0.0	80.6	11.4	0.6	-2.4	4.8	7.7	9.2	13.7	5.4	163.3	18.5	1.0	37.9	4.1	0.0
Means				88.0	15.8	6.8	4.6	10.1	11.5	12.3	15.1	6.8	173.2	27.2	1.3	25.9	3.8	1.7
Totals			167.2									210.0	5369.2		40.5		119.2	53.2
Max					21.3	12.7	11.6						411.3	58.3	3.5	41.7	9.7	6.0
Min					7.7	0.6	-2.4						88.7	13.3	0.2	14.2	0.0	0.0

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

			Rain	RH	Max	Min	Grass	Soil Temperatures				Rad	Windrun	Max	Soil	Sun	Growing	
			Daily	24hr	Daily	Daily	Daily	10cm	20cm	30cm	100cm	Daily	Daily	Speed	Penman	Moisture	Sun	Degree
			mm	mean	°C	°C	°C	9am	9am	9am	9am	mj/m2	km	km/hr	mm	%	Daily	Days>10
																	hours	
1	6	2010	27.0	91.6	10.9	2.3	0.6	7.1	8.5	9.2	13.5	1.5	200.1	26.3	0.5	44.7	0.0	0.0
2	6	2010	2.8	89.7	12.2	6.0	5.4	9.2	9.2	9.3	13.3	2.4	132.7	23.3	0.3	40.0	0.0	0.0
3	6	2010	0.0	89.3	14.5	5.4	2.8	8.1	9.5	10.0	13.2	5.5	159.2	26.0	0.9	38.7	4.3	0.0
4	6	2010	0.0	82.4	15.0	3.2	0.4	6.8	9.1	9.9	13.1	7.3	172.6	22.3	1.1	38.1	8.9	0.0
5	6	2010	4.4	95.5	15.3	1.9	-0.9	5.5	7.9	9.2	13.0	5.8	200.9	37.4	1.5	38.1	7.2	0.0
6	6	2010	54.0	93.6	14.5	6.0	4.1	9.0	9.5	9.6	12.9	1.4	163.4	32.1	0.2	44.1	0.0	0.3
7	6	2010	5.8	62.4	11.6	8.9	8.9	11.6	11.1	10.5	12.7	2.3	173.4	32.5	0.4	40.9	0.0	0.2
8	6	2010	0.0	88.5	10.7	5.6	4.3	8.7	10.2	10.6	12.6	5.7	202.9	44.6	1.5	39.1	2.7	0.0
9	6	2010	0.2	80.5	11.9	-1.0	-4.3	3.7	6.8	8.6	12.6	8.6	200.2	23.6	1.3	39.1	8.7	0.0
10	6	2010	13.6	93.5	14.0	-0.5	-3.6	3.1	5.7	7.4	12.6	5.7	199.3	36.3	1.2	41.7	4.5	0.0
11	6	2010	0.0	62.2	16.9	2.1	0.5	8.1	8.5	8.4	12.4	6.4	279.4	40.0	1.6	39.5	5.9	0.0
12	6	2010	0.0	83.4	13.5	5.9	1.0	7.1	8.2	8.8	12.2	6.6	311.1	43.9	1.5	38.8	6.0	0.0
13	6	2010	1.6	82.8	13.1	2.3	-0.7	5.4	7.1	8.2	12.1	5.7	161.5	36.6	0.9	38.7	3.2	0.0
14	6	2010	0.0	93.9	14.2	-1.7	-6.2	2.8	5.7	7.3	12.1	7.9	167.5	32.5	1.4	38.6	7.2	0.0
15	6	2010	0.0	85.9	12.0	-0.9	-4.0	3.0	5.3	6.7	11.9	6.5	181.2	21.7	0.9	38.4	4.3	0.0
16	6	2010	0.0	87.7	14.3	0.9	-1.4	3.3	5.5	6.6	11.8	8.2	188.8	20.5	1.2	37.3	8.8	0.0
17	6	2010	0.0	72.6	14.4	0.9	-1.2	3.6	5.7	6.7	11.6	8.3	213.3	31.4	1.1	37.4	8.5	0.0
18	6	2010	2.4	95.1	14.5	1.2	-3.2	3.9	5.6	6.6	11.5	5.2	206.9	32.1	1.4	37.3	4.1	0.0
19	6	2010	15.6	97.2	16.4	6.3	4.1	8.9	8.2	7.9	11.3	5.3	167.0	34.9	1.0	42.6	1.5	1.3
20	6	2010	2.8	73.3	14.9	10.7	9.3	10.2	10.0	9.5	11.2	3.7	227.9	40.9	0.6	40.7	1.5	2.8
21	6	2010	0.0	84.8	15.2	7.7	1.8	7.9	9.3	9.7	11.3	7.9	274.6	49.0	1.9	39.3	8.0	1.4
22	6	2010	0.0	78.9	15.2	1.2	-1.5	4.7	7.3	8.4	11.4	8.2	245.5	33.2	1.7	38.6	8.8	0.0
23	6	2010	1.4	86.3	11.4	3.2	0.3	7.1	7.9	8.3	11.4	2.2	199.0	38.8	0.9	38.2	0.0	0.0
24	6	2010	1.2	77.4	12.9	6.7	2.8	8.5	8.5	8.5	11.4	3.5	338.1	44.5	1.0	38.5	0.3	0.0
25	6	2010	7.4	75.3	11.9	8.2	7.4	8.7	9.3	9.3	11.3	3.7	352.3	45.5	1.1	40.2	0.6	0.0
26	6	2010	4.8	88.9	11.7	9.1	7.9	9.5	9.7	9.5	11.4	2.3	169.4	35.5	1.1	40.7	0.0	0.4
27	6	2010	0.0	89.7	14.3	6.8	5.3	8.5	9.4	9.5	11.4	7.3	193.8	21.5	1.2	39.8	5.7	0.5
28	6	2010	9.8	93.2	12.5	2.8	1.0	6.0	8.0	8.9	11.4	5.4	120.2	18.2	0.9	41.7	4.0	0.0
29	6	2010	0.0	89.1	12.2	4.2	2.7	8.5	9.0	9.1	11.4	4.4	115.7	18.8	0.7	40.6	0.5	0.0
30	6	2010	0.0	91.3	12.4	6.7	5.2	8.9	9.6	9.6	11.4	6.1	141.9	16.4	0.9	39.5	3.2	0.0
Means				85.2	13.5	4.1	1.6	6.9	8.2	8.7	12.0	5.4	202.0	32.0	1.1	39.7	3.9	0.2
Totals			154.8									160.8	6059.8		31.9		118.2	7.0
Max					16.9	10.7	9.3						352.3	49.0	1.9	44.7	8.9	2.8
Min					10.7	-1.7	-6.2						120.2	18.2	0.2	37.3	0.0	0.0

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

							Grass	Soil Temperatures						Max		Soil		Growing
			Rain	RH	Max	Min	Min	10cm	20cm	30cm	100cm	Rad	Windrun	Wind	Penman	Moisture	Sun	Degree
			Daily	24hr	Daily	Daily	Daily	9am	9am	9am	9am	Daily	Daily	Speed	ET	5-35cm	Daily	Days>10
			mm	mean	°C	°C	°C	°C	°C	°C	°C	mj/m2	km	km/hr	mm	%	hours	
1	7	2010	0.0	86.5	15.5	1.2	-1.8	5.7	8.1	9.1	11.4	8.6	176.1	22.3	1.3	38.9	8.6	0.0
2	7	2010	0.0	88.3	14.4	0.3	-3.2	4.4	6.8	8.0	11.5	8.6	178.2	17.8	1.3	38.6	8.8	0.0
3	7	2010	0.0	77.3	15.8	1.1	-1.5	4.0	6.3	7.4	11.4	8.5	242.8	33.2	2.0	38.5	8.4	0.0
4	7	2010	0.0	74.8	15.5	1.0	-2.0	3.8	6.1	7.1	11.3	8.7	187.3	23.9	1.7	37.9	8.8	0.0
5	7	2010	0.0	87.5	12.2	1.9	-2.2	4.4	6.0	6.8	11.2	5.1	196.9	36.7	1.1	37.6	0.7	0.0
6	7	2010	0.0	77.0	11.0	3.3	1.9	6.0	7.1	7.4	11.0	4.8	198.2	37.8	1.1	37.1	1.9	0.0
7	7	2010	0.0	89.2	12.1	4.2	2.9	6.3	7.2	7.5	10.9	5.7	128.4	16.2	1.1	37.2	0.6	0.0
8	7	2010	0.0	87.0	14.1	1.4	-0.7	4.9	6.8	7.5	10.9	7.9	135.7	18.7	1.2	36.7	7.6	0.0
9	7	2010	0.0	82.0	12.6	-1.3	-5.0	2.9	5.5	6.7	10.8	9.0	162.6	29.5	1.5	36.4	8.5	0.0
10	7	2010	0.0	82.4	11.0	-2.6	-6.0	2.0	4.7	5.9	10.7	9.0	196.1	19.3	1.3	36.1	8.8	0.0
11	7	2010	0.0	82.4	10.8	-1.8	-4.6	1.8	4.1	5.3	10.6	9.1	201.4	21.1	1.1	36.2	8.0	0.0
12	7	2010	0.0	87.5	11.5	-0.9	-4.1	2.0	4.1	5.1	10.5	9.3	176.8	22.2	1.1	36.0	8.6	0.0
13	7	2010	0.2	83.8	13.5	-3.0	-5.9	1.6	3.9	4.9	10.3	9.2	171.7	16.3	1.3	36.0	9.0	0.0
14	7	2010	0.0	82.7	12.8	-1.2	-4.1	2.4	4.1	4.9	10.1	7.9	182.4	31.1	1.2	36.0	6.3	0.0
15	7	2010	0.0	78.5	13.8	0.7	-0.997	5.4	5.9	6.0	10.0	8.4	206.7	25.3	1.3	36.2	6.5	0.0
16	7	2010	4.2	88.7	12.7	3.0	0.9	5.0	6.2	6.6	9.9	4.6	214.1	40.3	1.0	35.6	0.8	0.0
17	7	2010	4.4	97.9	11.2	4.6	4.0	8.7	8.1	7.7	9.9	1.8	213.7	43.1	0.6	35.5	0.0	0.0
18	7	2010	0.0	91.1	12.6	1.9	-1.1	5.8	7.3	7.7	9.9	7.1	151.3	18.4	0.8	37.9	4.2	0.0
19	7	2010	0.0	63.5	15.9	2.9	-1.5	5.0	6.8	7.5	10.0	9.7	322.0	36.3	2.2	37.6	9.0	0.0
20	7	2010	2.2	93.7	16.8	5.7	2.0	6.5	7.2	7.5	10.0	9.2	259.5	39.2	2.4	37.7	7.7	1.3
21	7	2010	18.4	97.1	10.4	8.5	7.9	8.6	8.7	8.4	10.1	2.2	139.0	24.7	0.4	43.6	0.0	0.0
22	7	2010	14.6	91.8	12.4	8.4	8.0	8.9	9.1	8.9	10.1	3.6	113.7	33.4	0.4	45.7	0.0	0.4
23	7	2010	9.0	92.9	11.3	8.8	7.6	9.5	9.7	9.4	10.2	1.9	297.6	58.6	0.5	41.7	0.0	0.1
24	7	2010	0.2	87.9	9.8	5.9	2.4	8.2	9.0	9.1	10.3	4.4	98.0	18.1	0.7	40.8	0.1	0.0
25	7	2010	0.0	91.9	11.2	4.1	0.3	7.8	8.9	9.0	10.4	7.7	130.3	20.5	0.9	39.7	4.3	0.0
26	7	2010	0.0	61.3	15.1	2.6	-0.8	6.9	8.4	8.8	10.4	9.6	373.8	47.2	1.8	39.2	8.1	0.0
27	7	2010	3.6	87.0	14.5	5.2	4.1	7.2	8.1	8.5	10.5	6.2	219.0	31.2	1.6	39.6	2.8	0.0
28	7	2010	0.0	81.0	13.6	0.5	-1.9	5.3	7.2	8.0	10.5	10.7	190.6	20.5	1.4	38.7	9.2	0.0
29	7	2010	0.0	90.8	12.8	2.4	-1.7	6.1	7.3	7.8	10.5	10.3	176.6	23.4	1.4	38.6	7.0	0.0
30	7	2010	0.0	81.7	13.4	1.3	-2.5	5.4	7.2	7.8	10.5	11.0	182.5	26.3	1.2	38.2	9.4	0.0
31	7	2010	0.8	83.5	13.3	1.8	-2.4	5.0	6.5	7.3	10.4	4.3	281.8	38.1	1.5	38.1	1.1	0.0
Means				84.8	13.0	2.3	-0.4	5.4	6.8	7.4	10.5	7.2	196.9	28.7	1.2	38.2	5.3	0.1
Totals			57.6									224.0	6104.8		38.4		164.7	1.8
Max					16.8	8.8	8.0						373.8	58.6	2.4	45.7	9.4	1.3
Min					9.8	-3.0	-6.0						98.0	16.2	0.4	35.5	0.0	0.0

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

			Rain	RH	Max	Min	Grass	Soil Temperatures				Rad	Windrun	Max	Soil	Sun	Growing	
			Daily	24hr	Daily	Daily	Daily	10cm	20cm	30cm	100cm	Daily	Daily	Wind	Penman	Moisture	Sun	Degree
			mm	mean	°C	°C	°C	9am	9am	9am	9am	mj/m2	km	Speed	ET	5-35cm	Daily	Days>10
													km/hr	mm	%	hours		
1	8	2010	7.4	64.7	15.2	6.4	5.3	8.9	8.6	8.3	10.4	3.9	442.3	62.6	1.3	39.9	0.1	0.8
2	8	2010	0.2	87.3	18.7	10.7	5.8	8.9	9.4	9.2	10.3	10.4	249.4	31.0	2.4	39.1	8.2	4.7
3	8	2010	8.4	92.7	14.1	8.8	8.0	9.9	10.0	9.7	10.4	8.2	176.1	25.0	1.2	41.0	4.4	1.4
4	8	2010	6.4	94.0	12.5	5.5	1.6	9.1	9.6	9.6	10.5	2.8	135.9	24.8	0.4	42.1	0.0	0.0
5	8	2010	0.0	84.9	13.6	6.1	1.9	8.9	9.6	9.7	10.6	10.6	191.4	22.8	1.6	40.5	7.1	0.0
6	8	2010	0.4	84.0	16.5	2.3	-0.5	8.0	9.3	9.6	10.6	11.4	247.0	36.5	2.3	39.6	8.8	0.0
7	8	2010	3.8	93.5	13.5	5.5	5.5	9.2	9.6	9.5	10.7	4.1	134.4	28.2	0.8	40.4	0.0	0.0
8	8	2010	0.6	76.1	14.8	6.8	4.8	9.5	10.1	10.0	10.8	9.4	131.0	21.8	1.3	39.6	6.3	0.8
9	8	2010	0.0	72.5	12.1	5.3	2.4	9.1	9.9	10.0	10.8	7.7	155.4	21.5	1.8	39.0	3.3	0.0
10	8	2010	0.0	61.1	11.7	-1.1	-4.5	5.8	7.8	8.8	10.9	12.7	232.7	30.2	1.9	38.5	9.8	0.0
11	8	2010	0.0	74.8	14.7	0.8	-2.0	5.2	7.0	7.9	10.9	12.7	173.9	21.2	2.2	38.7	9.8	0.0
12	8	2010	1.6	75.8	15.4	1.6	-3.7	5.3	6.7	7.6	10.8	5.3	385.7	52.9	2.0	37.9	0.8	0.0
13	8	2010	18.6	87.5	16.2	6.0	5.1	9.5	9.0	8.6	10.7	3.5	162.3	30.1	0.9	42.6	0.0	1.1
14	8	2010	0.0	89.2	17.9	10.6	7.5	10.5	10.6	10.1	10.7	7.9	181.5	31.6	1.3	40.8	4.5	4.2
15	8	2010	0.0	87.6	14.5	9.4	9.0	10.9	11.1	10.7	10.7	9.6	153.7	25.1	1.2	40.1	3.9	1.9
16	8	2010	1.2	82.1	13.5	6.9	3.5	10.4	10.8	10.7	10.8	10.7	171.9	33.9	1.1	39.6	5.4	0.2
17	8	2010	0.0	79.6	17.5	8.0	6.5	10.7	11.0	10.8	10.9	10.6	310.2	47.5	2.2	38.7	6.1	2.8
18	8	2010	1.4	87.8	15.1	6.4	2.0	9.7	10.6	10.8	11.1	9.5	179.4	29.6	1.5	38.5	5.3	0.8
19	8	2010	0.4	85.7	14.3	4.7	2.7	9.3	10.2	10.4	11.1	13.1	212.7	28.5	1.6	38.5	8.6	0.0
20	8	2010	0.0	69.6	10.9	7.1	6.7	10.2	10.7	10.7	11.2	7.8	142.1	22.8	1.2	38.0	0.6	0.0
21	8	2010	0.0	91.5	11.8	6.9	5.7	10.0	10.7	10.7	11.3	10.0	158.2	20.2	1.4	37.7	3.6	0.0
22	8	2010	0.0	67.3	14.6	1.2	-1.4	7.8	9.2	9.9	11.3	14.1	192.2	24.2	1.6	37.3	9.3	0.0
23	8	2010	4.4	85.3	15.2	3.9	-0.2	8.2	9.3	9.8	11.4	10.5	211.9	31.6	1.6	37.9	6.8	0.0
24	8	2010	0.0	87.8	14.0	2.9	0.3	8.2	9.4	9.8	11.3	13.5	196.8	29.8	1.4	37.7	8.1	0.0
25	8	2010	6.0	94.0	13.3	1.9	-1.3	7.8	9.1	9.7	11.3	11.6	170.1	21.7	1.3	38.1	7.3	0.0
26	8	2010	0.0	72.6	16.9	5.2	5.2	9.6	10.0	10.0	11.3	11.1	251.5	41.7	1.8	38.6	4.5	1.0
27	8	2010	11.2	96.0	17.3	7.1	2.9	9.5	10.1	10.3	11.3	12.2	237.2	35.2	2.5	40.2	6.5	2.2
28	8	2010	1.4	82.7	16.9	9.1	7.8	10.8	11.0	10.8	11.3	11.5	206.9	32.0	1.5	40.8	5.0	3.0
29	8	2010	3.6	91.7	10.3	4.8	1.7	9.6	10.5	10.8	11.4	4.2	123.7	20.0	0.6	41.1	1.3	0.0
30	8	2010	5.8	83.7	15.8	3.7	-0.1	8.9	10.0	10.3	11.4	14.4	249.9	40.3	1.9	41.9	8.3	0.0
31	8	2010	0.4	74.7	13.3	6.6	7.2	10.3	10.8	10.8	11.4	8.7	251.6	37.0	1.4	40.8	2.2	0.0
Means				82.5	14.6	5.5	3.1	9.0	9.7	9.8	11.0	9.5	207.1	31.0	1.5	39.5	5.0	0.8
Totals			83.2									293.5	6419.0		47.3		155.8	25.0
Max					18.7	10.7	9.0						442.3	62.6	2.5	42.6	9.8	4.7
Min					10.3	-1.1	-4.5						123.7	20.0	0.4	37.3	0.0	0.0

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

			Rain	RH	Max	Min	Grass	Soil Temperatures				Rad	Windrun	Max	Soil	Sun	Growing	
			Daily	24hr	Daily	Daily	Min	10cm	20cm	30cm	100cm	Daily	Daily	Wind	Penman	Moisture	Sun	Degree
			mm	mean	°C	°C	°C	9am	9am	9am	9am	mj/m2	km	Speed	ET	5-35cm	Daily	Days>10
														km/hr	mm	%	hours	
1	9	2010	0.6	86.4	14.2	4.9	2.9	9.4	10.3	10.5	11.5	13.5	188.6	37.7	1.9	40.1	5.9	0.0
2	9	2010	9.4	54.7	12.9	3.9	-0.7	9.4	10.0	10.3	11.5	5.9	381.6	50.0	1.3	42.2	1.1	0.0
3	9	2010	0.0	59.2	16.0	7.3	4.1	8.6	9.6	10.0	11.5	16.2	341.3	61.5	2.9	40.6	10.1	1.6
4	9	2010	0.0	50.0	15.9	0.4	-5.6	6.9	8.6	9.4	11.5	16.2	310.0	36.6	3.6	39.6	10.8	0.0
5	9	2010	4.8	74.6	16.4	4.7	0.7	8.3	9.1	9.5	11.5	7.7	401.1	63.6	3.0	39.8	1.5	0.5
6	9	2010	0.0	83.9	20.0	11.5	9.9	11.0	10.6	10.2	11.4	13.6	315.7	48.2	3.4	39.3	6.2	5.8
7	9	2010	0.0	79.8	20.1	9.5	6.0	11.4	11.5	11.2	11.4	16.7	185.1	28.2	2.6	38.4	8.5	4.8
8	9	2010	0.0	80.3	15.7	10.3	8.5	12.4	12.3	12.0	11.5	9.4	241.5	31.0	1.4	38.3	2.0	3.0
9	9	2010	14.2	86.1	14.8	9.4	7.7	12.2	12.5	12.2	11.6	9.9	271.3	39.3	1.5	41.6	0.7	2.1
10	9	2010	0.0	67.6	18.7	8.8	7.1	12.1	12.4	12.2	11.7	17.0	308.8	35.3	3.1	40.1	9.2	3.7
11	9	2010	3.0	91.3	16.7	10.2	4.0	12.0	12.5	12.4	11.8	6.1	194.1	27.4	2.1	39.7	0.0	3.4
12	9	2010	6.8	91.9	19.9	9.6	8.4	12.0	12.4	12.2	11.9	9.0	162.5	26.2	1.2	41.3	2.2	4.8
13	9	2010	1.2	59.2	13.9	10.9	11.1	13.2	13.4	13.0	12.0	7.6	223.8	32.8	1.3	41.0	0.0	2.4
14	9	2010	5.0	73.3	15.8	8.6	4.2	11.5	12.4	12.6	12.1	7.7	262.2	43.1	2.2	41.1	4.2	2.2
15	9	2010	0.0	59.0	13.6	3.9	1.4	10.6	11.6	12.0	12.2	13.5	333.9	30.3	2.4	40.2	7.8	0.0
16	9	2010	0.0	50.7	15.0	6.1	2.2	9.8	11.0	11.5	12.3	8.7	441.9	61.2	2.5	39.4	2.2	0.5
17	9	2010	2.2	58.8	16.3	9.4	5.5	10.8	11.1	11.2	12.3	10.4	373.8	68.0	1.8	39.2	4.4	2.9
18	9	2010	0.2	60.1	16.3	3.4	-0.3	9.1	10.3	10.9	12.3	19.7	394.0	79.9	2.5	38.3	10.5	0.0
19	9	2010	0.0	50.3	14.4	2.4	-0.8	9.1	10.2	10.7	12.2	19.1	467.0	63.7	3.4	37.4	10.4	0.0
20	9	2010	1.0	46.5	15.9	5.6	0.7	9.2	9.9	10.4	12.2	16.9	575.5	64.9	2.4	37.2	7.6	0.7
21	9	2010	1.4	60.0	14.9	7.4	3.0	9.1	9.9	10.4	12.1	20.1	418.3	66.7	3.6	36.4	11.4	1.1
22	9	2010	2.2	43.6	14.5	3.9	2.2	9.3	10.1	10.4	12.1	20.9	552.6	65.6	3.6	36.5	9.3	0.0
23	9	2010	0.0	44.4	14.0	5.2	1.3	8.8	9.8	10.3	12.0	20.1	645.0	84.3	3.3	35.7	11.6	0.0
24	9	2010	0.0	46.3	16.6	5.8	0.7	8.6	9.3	9.9	12.0	10.7	514.9	58.2	3.1	35.1	4.2	1.2
25	9	2010	0.0	55.2	18.1	9.9	6.4	9.6	10.2	10.4	11.9	17.4	469.6	52.7	4.5	34.9	5.5	4.0
26	9	2010	0.0	50.3	21.1	12.2	9.4	11.2	10.9	10.8	11.9	21.5	499.7	56.9	4.5	34.0	8.0	6.7
27	9	2010	0.0	49.5	21.1	9.7	7.5	11.0	11.5	11.6	11.9	21.4	215.1	30.2	4.2	33.4	11.9	5.4
28	9	2010	0.0	62.5	19.4	7.4	1.5	11.1	12.0	12.2	11.9	14.2	386.9	52.6	3.2	33.2	6.5	3.4
29	9	2010	25.0	76.8	21.1	12.7	12.1	13.3	13.3	12.9	12.0	12.1	233.6	37.5	2.0	36.3	5.3	6.9
30	9	2010	16.0	85.075	17.3	13.1	12.7	14.2	14.3	13.8	12.2	9.1	240.9	43.9	1.7	41.7	0.0	5.2
Means				64.6	16.7	7.6	4.5	10.5	11.1	11.2	11.9	13.7	351.7	49.3	2.7	38.4	6.0	2.4
Totals			93.0									412.3	10550.3		80.2		179.0	72.2
Max					21.1	12.2	11.1						645.0	84.3	4.5	42.2	11.9	6.7
Min					12.9	0.4	-5.6						162.5	26.2	1.2	33.2	0.0	0.0

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

			Rain	RH	Max	Min	Grass	Soil Temperatures				Rad	Windrun	Max	Soil	Sun	Growing	
			Daily	24hr	Daily	Daily	Min	10cm	20cm	30cm	100cm	Daily	Daily	Wind	Penman	Moisture	Sun	Degree
			mm	mean	°C	°C	°C	9am	9am	9am	9am	mj/m2	km	Speed	ET	5-35cm	Daily	Days>10
								°C	°C	°C	°C		km/hr	mm	%	hours		
1	10	2010	0.0	57.6	18.1	9.4	7.5	12.5	13.7	13.7	12.3	23.1	553.1	49.4	3.8	39.7	11.1	3.7
2	10	2010	0.0	71.1	18.0	8.8	6.7	11.0	12.3	12.7	12.5	22.5	268.0	32.1	2.6	38.6	11.8	3.4
3	10	2010	0.0	76.1	17.7	6.1	3.9	11.4	12.7	13.0	12.6	22.5	241.5	41.8	2.6	37.6	11.5	1.9
4	10	2010	0.0	83.5	19.1	4.3	2.1	11.1	12.5	13.0	12.7	22.3	213.7	40.6	2.8	37.1	11.5	1.7
5	10	2010	0.0	69.6	15.8	3.9	0.7	11.3	12.7	13.1	12.8	23.4	175.1	27.3	2.6	36.3	11.9	0.0
6	10	2010	0.0	77.4	21.9	5.5	0.6	11.5	12.8	13.2	12.9	23.8	231.8	39.9	4.9	35.7	12.0	3.7
7	10	2010	0.0	65.0	15.6	5.9	2.1	11.8	13.0	13.4	12.9	21.2	235.7	32.9	2.3	35.1	8.5	0.7
8	10	2010	8.0	57.3	19.3	5.0	1.1	12.1	13.3	13.6	13.0	18.8	373.2	52.5	3.9	34.5	7.3	2.2
9	10	2010	2.2	57.7	16.5	10.2	7.0	12.8	13.7	13.7	13.1	20.2	319.2	49.1	3.7	34.7	7.5	3.4
10	10	2010	4.2	80.3	17.6	5.0	0.9	11.2	12.7	13.2	13.2	16.7	270.3	47.2	3.7	34.9	3.0	1.3
11	10	2010	0.4	70.3	13.3	3.5	0.3	10.9	12.4	12.9	13.2	18.5	231.1	45.4	2.4	35.2	5.9	0.0
12	10	2010	0.0	73.9	16.5	1.2	-1.4	9.9	11.7	12.4	13.2	25.2	279.2	42.7	3.1	35.2	12.1	0.0
13	10	2010	0.0	82.4	15.4	3.4	1.5	10.6	12.0	12.6	13.2	25.0	224.4	35.9	2.8	34.4	12.3	0.0
14	10	2010	0.0	85.7	17.8	8.1	7.0	13.0	13.5	13.4	13.2	21.6	180.2	37.7	2.5	33.5	6.7	3.0
15	10	2010	0.0	96.3	15.9	10.6	10.2	14.3	14.6	14.3	13.3	17.8	199.0	33.0	1.7	34.2	4.0	3.3
16	10	2010	0.4	88.4	20.9	7.4	4.5	13.5	14.3	14.3	13.4	25.3	413.2	59.7	4.0	33.1	11.9	4.2
17	10	2010	0.6	51.2	20.2	12.0	9.7	14.4	14.8	14.7	13.5	20.4	408.5	59.1	3.5	32.8	5.5	6.1
18	10	2010	0.0	44.2	15.0	8.6	6.4	13.2	14.4	14.6	13.6	24.5	462.3	51.2	4.4	32.2	10.7	1.8
19	10	2010	5.4	81.2	18.3	6.5	2.4	11.3	12.8	13.5	13.7	23.4	399.1	53.7	4.4	31.3	10.9	2.4
20	10	2010	0.0	57.2	13.8	6.3	5.9	12.5	13.5	13.7	13.7	19.2	306.3	47.5	3.0	31.1	5.0	0.1
21	10	2010	2.8	83.2	14.6	7.9	2.9	11.9	13.1	13.5	13.7	17.4	219.8	46.5	2.2	30.8	3.7	1.2
22	10	2010	0.0	89.2	16.0	2.6	-0.5	11.0	12.5	13.2	13.8	25.5	218.0	30.2	3.0	31.0	11.4	0.0
23	10	2010	0.0	76.6	15.8	4.4	0.6	11.7	13.0	13.5	13.7	20.6	162.6	27.6	2.3	30.8	3.3	0.1
24	10	2010	0.0	49.4	21.9	7.4	3.6	13.3	14.0	14.1	13.8	24.9	331.4	51.8	4.7	30.0	11.4	4.6
25	10	2010	0.0	87.1	21.3	11.4	7.6	13.9	14.6	14.7	13.8	19.9	150.2	27.6	4.3	29.7	5.6	6.3
26	10	2010	0.0	74.9	14.5	6.6	2.1	13.7	14.7	14.9	13.9	19.4	231.9	31.2	1.9	28.9	4.0	0.5
27	10	2010	0.0	54.2	22.3	6.8	3.8	12.9	13.7	14.3	14.0	27.9	323.6	38.5	5.0	28.3	12.6	4.5
28	10	2010	0.0	77.4	22.7	12.8	8.2	14.8	15.1	15.2	14.0	25.1	326.6	45.1	5.9	26.6	11.7	7.7
29	10	2010	0.0	63.7	18.5	12.3	9.8	15.5	16.0	15.9	14.1	17.0	258.9	39.2	3.1	26.3	1.3	5.4
30	10	2010	0.0	57.3	15.5	9.8	9.3	14.4	15.5	15.6	14.3	23.3	269.8	36.6	3.5	25.6	5.7	2.7
31	10	2010	0.0	66.4	15.4	9.5	8.8	14.1	15.2	15.5	14.4	22.8	231.2	35.9	3.3	24.5	6.7	2.4
Means				71.2	17.6	7.2	4.4	12.5	13.6	13.8	13.4	21.9	280.9	41.6	3.3	32.6	8.3	2.5
Totals			24.0									679.0	8708.9		103.7		258.6	78.4
Max					22.7	12.8	10.2						553.1	59.7	5.9	39.7	12.6	7.7
Min					13.3	1.2	-1.4						150.2	27.3	1.7	24.5	1.3	0.0

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

			Rain	RH	Max	Min	Grass	Soil Temperatures				Rad	Windrun	Max	Soil	Sun	Growing	
			Daily	24hr	Daily	Daily	Min	10cm	20cm	30cm	100cm	Daily	Daily	Wind	Penman	Moisture	Sun	Degree
			mm	mean	°C	°C	°C	9am	9am	9am	9am	mj/m2	km	Speed	ET	5-35cm	Daily	Days>10
								°C	°C	°C	°C		km/hr	mm	%	hours		
1	11	2010	0.0	65.0	16.2	4.3	1.4	13.0	14.3	15.0	14.4	23.0	227.7	32.5	3.3	24.0	7.8	0.2
2	11	2010	0.0	54.9	19.7	5.2	3.1	13.2	14.3	14.8	14.5	29.7	264.5	33.7	4.4	23.1	13.5	2.4
3	11	2010	0.0	59.4	22.1	7.9	3.2	14.7	15.2	15.6	14.5	29.6	422.0	47.3	6.8	21.9	13.5	5.0
4	11	2010	0.0	45.3	21.0	12.4	8.8	15.6	16.1	16.2	14.6	17.3	345.0	45.7	4.6	21.2	3.1	6.7
5	11	2010	5.2	64.6	21.0	10.8	6.4	15.2	15.7	16.0	14.7	18.7	187.3	36.0	4.2	20.9	7.2	5.9
6	11	2010	0.0	69.5	17.2	4.9	2.9	13.5	14.8	15.5	14.7	30.2	165.7	38.9	3.7	21.1	12.8	1.1
7	11	2010	0.0	76.8	15.4	3.0	-0.6	13.2	14.5	15.4	14.8	28.0	231.9	34.7	3.2	20.8	11.8	0.0
8	11	2010	0.0	68.2	14.6	10.2	9.8	15.3	16.2	16.2	14.8	16.9	198.4	27.5	2.5	20.0	1.6	2.4
9	11	2010	0.0	73.7	20.5	8.1	3.6	15.2	15.6	15.9	14.9	30.3	218.5	28.8	4.0	20.0	13.4	4.3
10	11	2010	0.0	74.4	20.4	7.2	4.2	16.0	16.5	16.8	15.0	29.4	165.6	28.0	3.9	19.2	13.7	3.8
11	11	2010	0.0	75.5	18.6	7.2	3.8	16.6	17.2	17.5	15.0	30.6	167.6	21.7	0.7	18.8	12.6	2.9
12	11	2010	0.0	51.0	27.3	3.8	5.0	17.6	18.0	18.2	15.2	31.0	314.6	41.1	7.5	18.3	13.5	5.5
13	11	2010	0.0	45.3	28.8	16.5	13.5	19.8	19.6	19.3	15.4	30.3	378.8	55.8	9.4	17.5	13.3	12.7
14	11	2010	0.0	75.7	23.4	16.4	13.2	20.6	20.5	20.2	15.6	12.3	306.1	65.3	4.7	17.9	2.0	9.9
15	11	2010	0.0	55.9	18.5	10.7	10.1	17.7	18.4	18.6	15.9	21.9	211.2	31.1	3.0	17.3	5.4	4.6
16	11	2010	0.0	80.5	29.1	9.1	6.3	17.8	18.0	18.2	16.0	30.0	279.8	48.9	9.0	17.0	12.3	9.1
17	11	2010	0.0	76.5	22.7	11.1	8.0	19.2	19.4	19.4	16.1	31.2	193.9	30.7	3.8	16.5	13.2	6.9
18	11	2010	0.0	65.6	28.1	9.7	6.1	19.3	19.8	20.0	16.2	26.2	281.9	52.3	7.9	16.1	9.3	8.9
19	11	2010	0.0	61.9	24.9	16.8	14.7	21.0	21.0	20.6	16.4	23.4	313.4	47.1	6.1	15.8	5.9	10.8
20	11	2010	18.4	89.6	22.6	16.2	13.7	21.3	21.2	20.9	16.6	11.5	211.2	26.9	3.1	15.9	1.0	9.4
21	11	2010	2.6	76.8	18.9	12.3	12.2	17.7	18.9	19.4	16.7	15.4	198.3	32.1	2.2	17.4	3.1	5.6
22	11	2010	0.8	71.4	16.1	8.6	8.0	16.2	17.5	18.2	16.8	19.5	209.4	40.6	2.8	18.1	3.3	2.4
23	11	2010	0.0	64.7	18.4	8.9	8.0	16.2	16.8	17.4	16.8	27.6	207.9	30.1	3.5	18.8	8.3	3.7
24	11	2010	0.0	76.0	20.0	5.5	2.7	15.7	16.6	17.5	16.8	32.4	206.6	27.1	4.3	18.9	14.0	2.7
25	11	2010	0.0	73.9	21.9	9.5	7.2	17.0	17.6	18.1	16.8	26.8	212.5	31.9	3.9	18.8	8.2	5.7
26	11	2010	0.0	81.2	20.3	10.6	8.0	18.0	18.5	18.9	16.8	26.1	214.2	39.2	3.0	18.6	9.6	5.4
27	11	2010	0.0	77.9	19.4	9.8	6.4	18.3	18.5	18.8	16.8	29.9	191.9	28.4	3.2	17.5	10.1	4.6
28	11	2010	0.0	71.6	21.3	12.6	10.1	19.9	19.6	19.6	16.9	32.4	253.9	29.4	3.9	17.6	13.7	6.9
29	11	2010	0.0	69.7	27.4	11.2	7.0	20.2	20.3	20.4	17.0	33.7	166.6	34.1	6.1	16.8	14.3	9.3
30	11	2010	0.0	77.0	22.5	10.7	6.7	20.9	21.0	21.2	17.2	30.0	267.0	33.9	4.1	16.8	11.8	6.6
Means				69.0	21.3	9.7	7.1	17.2	17.7	18.0	15.8	25.8	240.4	36.7	4.4	18.8	9.4	5.5
Totals			27.0									775.1	7213.4		132.8		283.3	165.5
Max					29.1	16.8	14.7						422.0	65.3	9.4	24.0	14.0	12.7
Min					14.6	3.0	-0.6						165.6	21.7	0.7	15.8	1.0	0.0

Marlborough Research Centre Blenheim

Daily weather data is summarised at 9am

			Rain	RH	Max	Min	Grass	Soil Temperatures				Rad	Windrun	Max	Soil	Sun	Growing	
			Daily	24hr	Daily	Daily	Min	10cm	20cm	30cm	100cm	Daily	Daily	Wind	Penman	Moisture	Sun	Degree
			mm	mean	°C	°C	°C	9am	9am	9am	9am	mj/m2	km	Speed	ET	5-35cm	Daily	Days>10
														km/hr	mm	%	hours	
1	12	2010	0.0	73.2	19.3	14.3	14.5	21.6	22.0	21.8	17.4	26.3	239.4	38.3	3.4	16.5	8.0	6.8
2	12	2010	0.0	66.2	18.7	12.5	10.9	20.1	21.2	21.3	17.6	25.8	197.6	32.7	3.4	16.3	5.1	5.6
3	12	2010	0.0	69.2	22.0	10.7	7.7	20.7	20.9	21.1	17.7	33.5	205.4	30.2	5.4	15.7	14.5	6.4
4	12	2010	0.0	56.3	22.4	8.0	4.5	20.1	20.8	21.3	17.8	34.2	223.9	30.0	5.8	16.3	14.6	5.2
5	12	2010	0.0	57.3	28.2	11.8	6.5	21.2	21.4	21.7	17.9	31.8	310.0	42.9	8.0	15.5	12.5	10.0
6	12	2010	0.2	82.3	29.3	12.2	9.8	21.5	22.0	22.1	18.1	28.4	258.6	44.9	7.4	14.8	9.3	10.8
7	12	2010	0.2	77.5	14.8	12.4	12.6	20.9	22.7	22.7	18.2	8.7	180.6	31.8	1.9	14.8	0.0	3.6
8	12	2010	1.2	63.5	14.4	10.7	10.9	17.9	19.3	19.9	18.3	12.8	145.6	30.0	2.0	14.8	0.1	2.6
9	12	2010	0.0	73.7	17.2	9.5	8.9	17.2	17.8	18.5	18.3	25.3	166.6	29.5	3.6	14.8	6.6	3.3
10	12	2010	0.0	67.4	27.7	9.0	5.4	19.0	18.9	19.1	18.2	22.2	371.1	43.3	8.1	14.6	6.5	8.4
11	12	2010	0.0	77.9	26.6	15.7	16.7	20.3	20.6	20.4	18.1	19.4	251.5	34.3	6.1	14.6	2.7	11.2
12	12	2010	0.0	74.4	20.9	11.7	8.2	20.3	20.3	20.4	18.1	22.7	216.9	30.9	3.7	14.2	6.9	6.3
13	12	2010	0.0	72.4	25.1	15.3	13.0	20.7	21.1	20.9	18.1	20.8	266.1	46.5	5.6	14.4	3.0	10.2
14	12	2010	0.2	81.2	22.4	16.9	13.9	21.7	21.6	21.4	18.2	21.5	262.7	33.1	2.9	14.3	2.3	9.6
15	12	2010	0.0	71.9	21.9	14.3	14.1	20.7	21.3	21.2	18.3	26.4	242.8	37.8	3.9	14.1	5.7	8.1
16	12	2010	18.2	93.8	21.1	10.3	7.5	20.2	20.9	21.2	18.3	13.6	110.0	17.3	2.6	14.3	1.2	5.7
17	12	2010	12.8	66.1	23.5	16.0	16.0	19.5	20.4	20.6	18.4	13.4	189.9	32.7	2.4	21.7	2.1	9.8
18	12	2010	15.2	92.7	28.8	16.7	17.3	20.7	20.5	20.4	18.4	30.4	229.0	36.4	6.9	24.1	10.3	12.8
19	12	2010	23.0	71.7	21.4	18.2	18.2	21.1	21.7	21.5	18.4	8.0	199.2	39.5	2.0	35.5	1.1	9.8
20	12	2010	11.6	94.5	22.5	18.4	16.7	19.7	20.5	20.6	18.5	8.8	218.4	32.1	2.8	37.8	0.3	10.4
21	12	2010	10.4	58.5	25.2	18.8	17.8	20.5	20.6	20.4	18.6	23.9	375.9	63.3	4.9	38.2	6.8	12.0
22	12	2010	0.0	44.4	25.2	16.9	13.6	19.5	20.0	20.3	18.6	32.3	556.6	64.3	7.8	36.2	10.6	11.0
23	12	2010	0.0	47.2	27.2	12.4	10.4	17.0	18.5	19.5	18.6	32.5	329.2	53.9	8.7	34.8	13.0	9.8
24	12	2010	0.0	44.1	23.3	14.4	11.6	17.8	19.2	20.0	18.6	31.6	602.0	68.0	8.0	33.4	11.6	8.8
25	12	2010	0.0	53.9	21.4	10.6	6.8	16.4	17.7	18.8	18.6	33.7	291.1	39.7	6.7	32.5	14.3	6.0
26	12	2010	0.0	69.4	26.0	11.5	7.3	17.7	19.0	19.6	18.6	27.5	352.0	47.2	7.1	31.5	7.9	8.8
27	12	2010	35.6	85.0	24.0	16.2	14.2	18.9	20.0	20.2	18.6	14.4	356.6	58.3	3.5	39.4	1.8	10.1
28	12	2010	3.0	70.9	24.2	17.4	16.8	19.8	20.0	20.0	18.6	23.4	354.2	70.5	4.5	38.6	4.0	10.8
29	12	2010	0.0	69.6	20.3	9.5	6.4	17.4	18.5	19.3	18.6	35.0	241.2	31.3	4.5	37.1	14.6	4.9
30	12	2010	0.0	71.0	24.4	10.8	8.9	17.9	18.9	19.6	18.6	35.5	240.1	38.6	6.6	35.1	14.5	7.6
31	12	2010	0.0	71.6	22.5	10.5	7.7	18.4	19.3	19.9	18.6	31.6	239.0	33.0	4.8	34.3	13.3	6.5
Means				70.0	23.0	13.3	11.4	19.6	20.2	20.5	18.3	24.4	271.7	40.7	5.0	24.2	7.3	8.2
Totals			131.6									755.1	8423.2		155.1		225.0	252.7
Max					29.3	18.8	18.2						602.0	70.5	8.7	39.4	14.6	12.8
Min					14.4	8.0	4.5						110.0	17.3	1.9	14.1	0.0	2.6