RESULTS OF THE QUESTIONNAIRE SURVEY

Where an insufficient number of responses were given to a question, that question has been omitted from the results. Question numbers corresponding to the questionnaire survey are given. Additional analyses of the results for each question answered are also presented.

Descriptive Statistics of the Survey

Number of responses to the questionnaire survey

	No. of questionnaires	**Percent (%)**
Returned questionnaires	49	83
Missing questionnaires	10	17
Total	59	100

Q2) Mean length of racecourses (m)

	N	**Minimum**	**Maximum**	**Mean**	**S.E.**
Flat course	28	1650	4180	2882.93	118.05
Hurdle course	31	1609	3219	2459.94	73.41
Steeplechase course	31	1609	3219	2474.55	79.76

Q3) Mean width of racecourses (m)

	N	**Minimum**	**Maximum**	**Mean**	**S.E.**
Flat course	29	16	40	23.45	1.01
Hurdle course	31	10	40	21.48	1.52
Steeplechase course	31	11	40	19.68	1.30

Q6) Predominant soil types

Percentage of predominant soils on racecourses in England, Scotland and Wales, based on responses to the questionnaire survey

Dichotomy label	Name	Count	Pct of Responses
Predominant soil type is sand	SOIL_S	2	4.2
Predominant soil type is sandy loam	SOIL_SL	11	22.9
Predominant soil type is sandy clay loam	SOIL_SCL	7	14.6
Predominant soil type is clay loam	SOIL_CL	13	27.1
Predominant soil type is clay	SOIL_C	4	8.3
Predominant soil type is silty clay	SOIL_SCY	1	2.1
Predominant soil type is silty clay loam	SOIL_SCM	3	6.3
Predominant soil type is silt loam	SOIL_L	3	6.3
Predominant soil type is sandy silt loam	SOIL_SSL	4	8.3
Total responses		48	100.0

11 missing cases; 48 valid cases

Racecourses of England, Scotland and Wales grouped by their predominant soil type and agroclimatic zone

Racecourse and soil type	Agroclimatic zone of racecourse						[1]Race type
	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	
Sand							
Kempton Park						**X**	**J**
Yarmouth					**X**		**F**
Sandy loam							
Aintree		**X**					**J**
Ascot				**X**			**B**
Catterick		**X**					**B**
Epsom Downs				**X**			**F**
Fakenham				**X**			**J**
Goodwood			**X**				**F**
Ludlow		**X**					**J**
Musselburgh		**X**					**B**
Nottingham			**X**				**F**
Sandown Park					**X**		**B**
Thirsk			**X**				**F**
Sandy clay loam							
Carlisle	**X**						**B**
Haydock Park	**X**						**B**
Kelso	**X**						**J**
Newbury			**X**				**B**
Newcastle	**X**						**B**
Salisbury				**X**			**F**
Warwick			**X**				**B**

Racecourse And soil type	Agroclimatic zone of racecourse						[1]Race type
	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	
Sandy clay							
Clay							
Newton Abbot				**X**			**J**
Plumpton			**X**				**J**
Stratford on Avon				**X**			**J**
Towcester				**X**			**J**
Silty clay							
Hamilton Park	**X**						**F**
Silty clay loam							
Folkestone				**X**			**B**
Hereford				**X**			**J**
Perth			**X**				**J**
Silt loam							
Brighton				**X**			**F**
Chester				**X**			**F**
Exeter				**X**			**J**
Sandy silt loam							
Doncaster				**X**			**B**
Redcar			**X**				**F**
Windsor					**X**		**F**
Worcester					**X**		**J**
Clay loam							
Bangor-on-Dee			**X**				**J**
Beverley			**X**				**F**
Cartmel	**X**						**J**
Cheltenham				**X**			**J**
Fontwell Park				**X**			**J**
Hexham	**X**						**J**
Huntingdon						**X**	**J**
Leicester				**X**			**B**
Lingfield Park				**X**			**B**
Pontefract			**X**				**F**
Ripon			**X**				**F**
Wetherby			**X**				**F**
York				**X**			**F**
Total	**7**	**4**	**13**	**18**	**4**	**2**	**48**

[1]*Race type, F = Flat, J = Jump, B = Both flat and jump*

Q5) Percentage of grass species present on racecourses in England, Scotland and Wales grouped by their predominant soil type

Summary of the percentage of grass species present on racecourses in England, Scotland and Wales, grouped by their predominant soil type.

	Bent (%)	**Fescue** (%)	**Rye** (%)	**Timothy** (%)	**Annual meadow grass** (%)	**Rough stalked meadow grass** (%)	**Smooth stalked meadow grass** (%)	**Other grass** (%)
Sand								
Mean	10.00	10.00	55.00	5.00	0.00	0.00	15.00	5.00
N	2	2	2	2	2	2	2	2
S.E.	0.00	0.00	5.00	5.00	0.00	0.00	5.00	5.00
Sandy loam								
Mean	4.20	9.10	70.50	0.00	11.80	0.00	0.64	3.36
N	10	10	10	11	10	11	11	11
S.E.	1.12	2.10	5.45	0.00	4.54	0.00	0.47	1.89
Sandy clay loam								
Mean	4.71	16.86	52.14	0.00	6.14	1.14	18.43	0.57
N	7	7	7	7	7	7	7	7
S.E.	1.91	4.43	8.78	0.00	4.87	1.14	8.95	0.57
Sandy clay								
Clay loam								
Mean	2.85	11.92	65.54	1.15	11.00	2.92	3.38	1.23
N	13	13	13	13	13	13	13	13
S.E.	1.06	2.65	3.88	0.56	3.29	1.66	1.16	0.86
Clay								
Mean	5.00	5.25	77.50	1.75	7.50	1.75	1.25	0.00
N	4	4	4	4	4	4	4	4
S.E.	2.89	2.75	6.61	1.18	4.78	1.18	1.25	0.00
Silty clay								
Mean	5.00	0.00	70.00	0.00	10.00	0.00	15.00	0.00
N	1	1	1	1	1	1	1	1
S.E.								
Silty clay loam								
Mean	3.33	10.00	63.33	2.33	11.00	0.00	8.33	1.67
N	3	3	3	3	3	3	3	3
S.E.	1.67	2.89	3.33	1.45	4.93	0.00	1.67	1.67
Silt loam								
Mean	3.00	5.50	65.00	0.00	20.50	0.00	4.00	0.00
N	2	2	2	3	2	2	3	3
S.E.	3.00	4.50	15.00	0.00	19.50	0.00	4.00	0.00
Sandy silt loam								
Mean	2.00	7.25	66.75	2.50	8.00	5.25	3.50	4.75
N	4	4	4	4	4	4	4	4
S.E.	1.08	4.39	6.50	2.50	2.97	2.75	2.26	4.11
Total								
Mean	3.93	10.33	65.20	1.02	9.78	1.57	5.85	1.90
N	46	46	46	48	46	47	48	48
S.E.	0.58	1.28	2.42	0.35	1.76	0.58	1.59	0.64

Grass species present on racecourses with a predominantly sand soil type

Predominant soil type is sand	**Bent grass** (%)	**Fescue grass** (%)	**Rye grass** (%)	**Timothy grass** (%)	**Annual meadow grass** (%)	**Rough stalked meadow grass** (%)	**Smooth stalked meadow grass** (%)	**Other grass** (%)
Yes								
Mean	10.00	10.00	55.00	5.00	.00	.00	15.00	5.00
N	2	2	2	2	2	2	2	2
S.E.	0.00	0.00	5.00	5.00	0.00	0.00	5.00	5.00
No								
Mean	3.66	10.34	65.66	0.85	10.23	1.64	5.46	1.76
N	44	44	44	46	44	45	46	46
S.E.	0.58	1.34	2.50	0.31	1.81	0.60	1.63	0.64
Total								
Mean	3.93	10.33	65.20	1.02	9.78	1.57	5.85	1.90
N	46	46	46	48	46	47	48	48
S.E.	0.58	1.28	2.42	0.35	1.76	0.58	1.59	0.64

ANOVA Table: Sand soil type (at 95 % level)			**Sum of Squares**	**df**	**Mean Square**	**F**	**Sig.**
Percentage of bent grass present * Predominant soil type is sand	Between Groups	(Combined)	76.918	1	76.918	5.373	.025
	Within Groups		629.886	44	14.316		
	Total		706.804	45			
Percentage of fescue grass present * Predominant soil type is sand	Between Groups	(Combined)	.222	1	.222	.003	.957
	Within Groups		3369.886	44	76.588		
	Total		3370.109	45			
Percentage of rye grass present * Predominant soil type is sand	Between Groups	(Combined)	217.353	1	217.353	.802	.375
	Within Groups		11923.886	44	270.997		
	Total		12141.239	45			
Percentage of timothy grass present * Predominant soil type is sand	Between Groups	(Combined)	33.044	1	33.044	6.283	.016
	Within Groups		241.935	46	5.259		
	Total		274.979	47			
Percentage of annual meadow grass present * Predominant soil type is sand	Between Groups	(Combined)	200.099	1	200.099	1.415	.241
	Within Groups		6221.727	44	141.403		
	Total		6421.826	45			
Percentage of rough stalked meadow grass present * Predominant soil type is sand	Between Groups	(Combined)	5.178	1	5.178	.327	.570
	Within Groups		712.311	45	15.829		
	Total		717.489	46			
Percentage of smooth stalked meadow grass present * Predominant soil type is sand	Between Groups	(Combined)	174.566	1	174.566	1.450	.235
	Within Groups		5537.413	46	120.379		
	Total		5711.979	47			
Percentage of other grass present * Predominant soil type is sand	Between Groups	(Combined)	20.110	1	20.110	1.034	.314
	Within Groups		894.370	46	19.443		
	Total		914.479	47			

Grass species present on racecourses with a predominantly sandy loam soil type

Predominant soil type is sandy loam	**Bent grass** (%)	**Fescue grass** (%)	**Rye grass** (%)	**Timothy grass** (%)	**Annual meadow grass** (%)	**Rough stalked meadow grass** (%)	**Smooth stalked meadow grass** (%)	**Other grass** (%)
Yes								
Mean	4.20	9.10	70.50	.00	11.80	.00	.64	3.36
N	10	10	10	11	10	11	11	11
S.E.	1.123	2.100	5.449	.000	4.524	.000	.472	1.89
No								
Mean	3.86	10.67	63.72	1.32	9.22	2.06	7.41	1.46
N	36	36	36	37	36	36	37	37
S.E.	.686	1.531	2.689	.442	1.896	.736	1.995	0.61
Total								
Mean	3.93	10.33	65.20	1.02	9.78	1.57	5.85	1.90
N	46	46	46	48	46	47	48	48
S.E.	.584	1.276	2.422	.349	1.761	.576	1.591	0.64

ANOVA Table: Sandy Loam soil type (at 95 % level)			**Sum of Squares**	**df**	**Mean Square**	**F**	**Sig.**
Percentage of bent grass present * Predominant soil type is sandy loam	Between Groups	(Combined)	.899	1	.899	.056	.814
	Within Groups		705.906	44	16.043		
	Total		706.804	45			
Percentage of fescue grass present * Predominant soil type is sandy loam	Between Groups	(Combined)	19.209	1	19.209	.252	.618
	Within Groups		3350.900	44	76.157		
	Total		3370.109	45			
Percentage of rye grass present * Predominant soil type is sandy loam	Between Groups	(Combined)	359.517	1	359.517	1.343	.253
	Within Groups		11781.722	44	267.766		
	Total		12141.239	45			
Percentage of timothy grass present * Predominant soil type is sandy loam	Between Groups	(Combined)	14.871	1	14.871	2.630	.112
	Within Groups		260.108	46	5.655		
	Total		274.979	47			
Percentage of annual meadow grass present * Predominant soil type is sandy loam	Between Groups	(Combined)	52.004	1	52.004	.359	.552
	Within Groups		6369.822	44	144.769		
	Total		6421.826	45			
Percentage of rough stalked meadow grass present * Predominant soil type is sandy loam	Between Groups	(Combined)	35.600	1	35.600	2.349	.132
	Within Groups		681.889	45	15.153		
	Total		717.489	46			
Percentage of smooth stalked meadow grass present * Predominant soil type is sandy loam	Between Groups	(Combined)	388.515	1	388.515	3.357	.073
	Within Groups		5323.464	46	115.727		
	Total		5711.979	47			
Percentage of other grass present * Predominant soil type is sandy loam	Between Groups	(Combined)	30.745	1	30.745	1.600	.212
	Within Groups		883.735	46	19.212		
	Total		914.479	47			

Grass species present on racecourses with a predominantly sandy clay loam soil type

Predominant soil type is sandy clay loam	**Bent grass** (%)	**Fescue grass** (%)	**Rye grass** (%)	**Timothy grass** (%)	**Annual meadow grass** (%)	**Rough stalked meadow grass** (%)	**Smooth stalked meadow grass** (%)	**Other grass** (%)
Yes								
Mean	4.71	16.86	52.14	.00	6.14	1.14	18.43	.57
N	7	7	7	7	7	7	7	7
S.E.	1.911	4.432	8.719	.000	4.867	1.143	8.949	.571
No								
Mean	3.79	9.15	67.54	1.20	10.44	1.65	3.71	2.12
N	39	39	39	41	39	40	41	41
S.E.	.608	1.216	2.256	.403	1.894	.651	.801	.735
Total								
Mean	3.93	10.33	65.20	1.02	9.78	1.57	5.85	1.90
N	46	46	46	48	46	47	48	48
S.E.	.584	1.276	2.422	.349	1.761	.576	1.591	.637

ANOVA Table: Sandy Clay Loam soil type (95 % level)			**Sum of Squares**	**df**	**Mean Square**	**F**	**Sig.**
Percentage of bent grass present * Predominant soil type is sandy clay loam	Between Groups	(Combined)	5.017	1	5.017	.315	.578
	Within Groups		701.788	44	15.950		
	Total		706.804	45			
Percentage of fescue grass present * Predominant soil type is sandy clay loam	Between Groups	(Combined)	352.175	1	352.175	5.135	.028
	Within Groups		3017.934	44	68.589		
	Total		3370.109	45			
Percentage of rye grass present * Predominant soil type is sandy clay loam	Between Groups	(Combined)	1406.690	1	1406.690	5.766	.021
	Within Groups		10734.549	44	243.967		
	Total		12141.239	45			
Percentage of timothy grass present * Predominant soil type is sandy clay loam	Between Groups	(Combined)	8.540	1	8.540	1.474	.231
	Within Groups		266.439	46	5.792		
	Total		274.979	47			
Percentage of annual meadow grass present * Predominant soil type is sandy clay loam	Between Groups	(Combined)	109.379	1	109.379	.762	.387
	Within Groups		6312.447	44	143.465		
	Total		6421.826	45			
Percentage of rough stalked meadow grass present * Predominant soil type is sandy clay loam	Between Groups	(Combined)	1.532	1	1.532	.096	.758
	Within Groups		715.957	45	15.910		
	Total		717.489	46			
Percentage of smooth stalked meadow grass present * Predominant soil type is sandy clay loam	Between Groups	(Combined)	1295.777	1	1295.777	13.497	.001
	Within Groups		4416.202	46	96.004		
	Total		5711.979	47			
Percentage of other grass present * Predominant soil type is sandy clay loam	Between Groups	(Combined)	14.375	1	14.375	.735	.396
	Within Groups		900.105	46	19.567		
	Total		914.479	47			

Grass species present on racecourses with a predominantly sandy clay soil type

Predominant soil type is sandy clay	**Bent grass** (%)	**Fescue grass** (%)	**Rye grass** (%)	**Timothy grass** (%)	**Annual meadow grass** (%)	**Rough stalked meadow grass** (%)	**Smooth stalked meadow grass** (%)	**Other grass** (%)
No								
Mean	3.93	10.33	65.20	1.02	9.78	1.57	5.85	1.90
N	46	46	46	48	46	47	48	48
S.E.	0.58	1.28	2.42	0.35	1.76	0.58	1.59	0.64
Total								
Mean	3.93	10.33	65.20	1.02	9.78	1.57	5.85	1.90
N	46	46	46	48	46	47	48	48
S.E.	0.58	1.28	2.42	0.35	1.76	0.58	1.59	0.64

Grass species present on racecourses with a predominantly clay loam soil type

Predominant soil type is clay loam	**Bent grass** (%)	**Fescue grass** (%)	**Rye grass** (%)	**Timothy grass** (%)	**Annual meadow grass** (%)	**Rough stalked meadow grass** (%)	**Smooth stalked meadow grass** (%)	**Other grass** (%)
Yes								
Mean	2.85	11.92	65.54	1.15	11.00	2.92	3.38	1.23
N	13	13	13	13	13	13	13	13
S.E.	1.06	2.65	3.88	0.57	3.29	1.66	1.16	0.86
No								
Mean	4.36	9.70	65.06	0.97	9.30	1.06	6.77	2.14
N	33	33	33	35	33	34	35	35
S.E.	0.70	1.45	3.05	0.44	2.11	0.48	2.13	0.82
Total								
Mean	3.93	10.33	65.20	1.02	9.78	1.57	5.85	1.90
N	46	46	46	48	46	47	48	48
S.E.	0.60	1.28	2.42	0.35	1.76	0.58	1.59	0.64

ANOVA Table: Clay Loam soil type (95% level)			**Sum of Squares**	**df**	**Mean Square**	**F**	**Sig.**
Percentage of bent grass present * Predominant soil type is clay loam	Between Groups	(Combined)	21.476	1	21.476	1.379	.247
	Within Groups		685.329	44	15.576		
	Total		706.804	45			
Percentage of fescue grass present * Predominant soil type is clay loam	Between Groups	(Combined)	46.216	1	46.216	.612	.438
	Within Groups		3323.893	44	75.543		
	Total		3370.109	45			
Percentage of rye grass present * Predominant soil type is clay loam	Between Groups	(Combined)	2.130	1	2.130	.008	.930
	Within Groups		12139.110	44	275.889		
	Total		12141.239	45			
Percentage of timothy grass present * Predominant soil type is clay loam	Between Groups	(Combined)	.315	1	.315	.053	.819
	Within Groups		274.664	46	5.971		
	Total		274.979	47			
Percentage of annual meadow grass present * Predominant soil type is clay loam	Between Groups	(Combined)	26.856	1	26.856	.185	.669
	Within Groups		6394.970	44	145.340		
	Total		6421.826	45			
Percentage of rough stalked meadow grass present * Predominant soil type is clay loam	Between Groups	(Combined)	32.684	1	32.684	2.148	.150
	Within Groups		684.805	45	15.218		
	Total		717.489	46			
Percentage of smooth stalked meadow grass present * Predominant soil type is clay loam	Between Groups	(Combined)	108.731	1	108.731	.893	.350
	Within Groups		5603.248	46	121.810		
	Total		5711.979	47			
Percentage of other grass present * Predominant soil type is clay loam	Between Groups	(Combined)	7.886	1	7.886	.400	.530
	Within Groups		906.593	46	19.709		
	Total		914.479	47			

Grass species present on racecourses with a predominantly clay soil type

Predominant soil type is clay	**Bent grass** (%)	**Fescue grass** (%)	**Rye grass** (%)	**Timothy grass** (%)	**Annual meadow grass** (%)	**Rough stalked meadow grass** (%)	**Smooth stalked meadow grass** (%)	**Other grass** (%)
Yes								
Mean	5.00	5.25	77.50	1.75	7.50	1.75	1.25	.00
N	4	4	4	4	4	4	4	4
S.E.	2.887	2.750	6.614	1.181	4.787	1.181	1.250	.000
No								
Mean	3.83	10.81	64.02	.95	10.00	1.56	6.27	2.07
N	42	42	42	44	42	43	44	44
S.E.	.591	1.356	2.522	.368	1.886	.623	1.721	.689
Total								
Mean	3.93	10.33	65.20	1.02	9.78	1.57	5.85	1.90
N	46	46	46	48	46	47	48	48
S.E.	.584	1.276	2.422	.349	1.761	.576	1.591	.637

ANOVA Table: Clay soil type (95% level)			**Sum of Squares**	**df**	**Mean Square**	**F**	**Sig.**
Percentage of bent grass present * Predominant soil type is clay	Between Groups	(Combined)	4.971	1	4.971	.312	.580
	Within Groups		701.833	44	15.951		
	Total		706.804	45			
Percentage of fescue grass present * Predominant soil type is clay	Between Groups	(Combined)	112.883	1	112.883	1.525	.223
	Within Groups		3257.226	44	74.028		
	Total		3370.109	45			
Percentage of rye grass present * Predominant soil type is clay	Between Groups	(Combined)	663.263	1	663.263	2.543	.118
	Within Groups		11477.976	44	260.863		
	Total		12141.239	45			
Percentage of timothy grass present * Predominant soil type is clay	Between Groups	(Combined)	2.320	1	2.320	.391	.535
	Within Groups		272.659	46	5.927		
	Total		274.979	47			
Percentage of annual meadow grass present * Predominant soil type is clay	Between Groups	(Combined)	22.826	1	22.826	.157	.694
	Within Groups		6399.000	44	145.432		
	Total		6421.826	45			
Percentage of rough stalked meadow grass present * Predominant soil type is clay	Between Groups	(Combined)	.135	1	.135	.008	.927
	Within Groups		717.355	45	15.941		
	Total		717.489	46			
Percentage of smooth stalked meadow grass present * Predominant soil type is clay	Between Groups	(Combined)	92.502	1	92.502	.757	.389
	Within Groups		5619.477	46	122.163		
	Total		5711.979	47			
Percentage of other grass present * Predominant soil type is clay	Between Groups	(Combined)	15.684	1	15.684	.803	.375
	Within Groups		898.795	46	19.539		
	Total		914.479	47			

Grass species present on racecourses with a predominantly silty clay soil type

Predominant soil type is silty clay	**Bent grass** (%)	**Fescue grass** (%)	**Rye grass** (%)	**Timothy grass** (%)	**Annual meadow grass** (%)	**Rough stalked meadow grass** (%)	**Smooth stalked meadow grass** (%)	**Other grass** (%)
Yes								
Mean	5.00	.00	70.00	0.00	10.00	.00	15.00	0.00
N	1	1	1	1	1	1	1	1
S.E.	.	.	.	.	.	.	.	.
No								
Mean	3.91	10.56	65.10	1.04	9.78	1.61	5.66	1.94
N	45	45	45	47	45	46	47	47
S.E.	0.60	1.28	2.47	0.36	1.80	0.59	1.61	0.65
Total								
Mean	3.93	10.33	65.20	1.02	9.78	1.57	5.85	1.90
N	46	46	46	48	46	47	48	48
S.E.	0.58	1.28	2.42	0.35	1.76	0.58	1.59	0.64

ANOVA Table: Silty Clay soil type (95% level)			**Sum of Squares**	**df**	**Mean Square**	**F**	**Sig.**
Percentage of bent grass present * Predominant soil type is silty clay	Between Groups	(Combined)	1.160	1	1.160	.072	.789
	Within Groups		705.644	44	16.037		
	Total		706.804	45			
Percentage of fescue grass present * Predominant soil type is silty clay	Between Groups	(Combined)	108.998	1	108.998	1.471	.232
	Within Groups		3261.111	44	74.116		
	Total		3370.109	45			
Percentage of rye grass present * Predominant soil type is silty clay	Between Groups	(Combined)	23.595	1	23.595	.086	.771
	Within Groups		12117.644	44	275.401		
	Total		12141.239	45			
Percentage of timothy grass present * Predominant soil type is silty clay	Between Groups	(Combined)	1.064	1	1.064	.179	.674
	Within Groups		273.915	46	5.955		
	Total		274.979	47			
Percentage of annual meadow grass present * Predominant soil type is silty clay	Between Groups	(Combined)	.048	1	.048	.000	.986
	Within Groups		6421.778	44	145.949		
	Total		6421.826	45			
Percentage of rough stalked meadow grass present * Predominant soil type is silty clay	Between Groups	(Combined)	2.533	1	2.533	.159	.692
	Within Groups		714.957	45	15.888		
	Total		717.489	46			
Percentage of smooth stalked meadow grass present * Predominant soil type is silty clay	Between Groups	(Combined)	85.426	1	85.426	.698	.408
	Within Groups		5626.553	46	122.316		
	Total		5711.979	47			
Percentage of other grass present * Predominant soil type is silty clay	Between Groups	(Combined)	3.671	1	3.671	.185	.669
	Within Groups		910.809	46	19.800		
	Total		914.479	47			

Grass species present on racecourses with a predominantly silty clay loam soil type

Predominant soil type is silty clay loam	**Bent grass** (%)	**Fescue grass** (%)	**Rye grass** (%)	**Timothy grass** (%)	**Annual meadow grass** (%)	**Rough stalked meadow grass** (%)	**Smooth stalked meadow grass** (%)	**Other grass** (%)
Yes								
Mean	3.33	10.00	63.33	2.33	11.00	.00	8.33	1.67
N	3	3	3	3	3	3	3	3
S.E.	1.67	2.89	3.33	1.45	4.93	0.00	1.67	1.67
No								
Mean	3.98	10.35	65.33	0.93	9.70	1.68	5.69	1.91
N	43	43	43	45	43	44	45	45
S.E.	0.62	1.36	2.59	0.36	1.86	0.61	1.69	0.67
Total								
Mean	3.93	10.33	65.20	1.02	9.78	1.57	5.85	1.90
N	46	46	46	48	46	47	48	48
S.E.	0.58	1.28	2.42	0.35	1.76	0.58	1.59	0.64

ANOVA Table: Silty Clay Loam soil type (95% level)			**Sum of Squares**	**df**	**Mean Square**	**F**	**Sig.**
Percentage of bent grass present * Predominant soil type is silty clay loam	Between Groups	(Combined)	1.161	1	1.161	.072	.789
	Within Groups		705.643	44	16.037		
	Total		706.804	45			
Percentage of fescue grass present * Predominant soil type is silty clay loam	Between Groups	(Combined)	.341	1	.341	.004	.947
	Within Groups		3369.767	44	76.586		
	Total		3370.109	45			
Percentage of rye grass present * Predominant soil type is silty clay loam	Between Groups	(Combined)	11.131	1	11.131	.040	.842
	Within Groups		12130.109	44	275.684		
	Total		12141.239	45			
Percentage of timothy grass present * Predominant soil type is silty clay loam	Between Groups	(Combined)	5.513	1	5.513	.941	.337
	Within Groups		269.467	46	5.858		
	Total		274.979	47			
Percentage of annual meadow grass present * Predominant soil type is silty clay loam	Between Groups	(Combined)	4.756	1	4.756	.033	.858
	Within Groups		6417.070	44	145.842		
	Total		6421.826	45			
Percentage of rough stalked meadow grass present * Predominant soil type is silty clay loam	Between Groups	(Combined)	7.944	1	7.944	.504	.481
	Within Groups		709.545	45	15.768		
	Total		717.489	46			
Percentage of smooth stalked meadow grass present * Predominant soil type is silty clay loam	Between Groups	(Combined)	19.668	1	19.668	.159	.692
	Within Groups		5692.311	46	123.746		
	Total		5711.979	47			
Percentage of other grass present * Predominant soil type is silty clay loam	Between Groups	(Combined)	.168	1	.168	.008	.927
	Within Groups		914.311	46	19.876		
	Total		914.479	47			

Grass species present on racecourses with a predominantly silt loam soil type

Predominant soil type is silt loam	**Bent grass** (%)	**Fescue grass** (%)	**Rye grass** (%)	**Timothy grass** (%)	**Annual meadow grass** (%)	**Rough stalked meadow grass** (%)	**Smooth stalked meadow grass** (%)	**Other grass** (%)
Yes								
Mean	3.00	5.50	65.00	0.00	20.50	0.00	4.00	0.00
N	2	2	2	3	2	2	3	3
S.E.	3.00	4.50	15.00	0.00	19.50	0.00	4.00	0.00
No								
Mean	3.98	10.55	65.20	1.09	9.30	1.64	5.98	2.02
N	44	44	44	45	44	45	45	45
S.E.	0.60	1.32	2.49	0.37	1.69	0.60	1.68	0.68
Total								
Mean	3.93	10.33	65.20	1.02	9.78	1.57	5.85	1.90
N	46	46	46	48	46	47	48	48
S.E.	0.58	1.28	2.42	0.35	1.76	0.58	1.59	0.64

ANOVA Table: Silt Loam soil type (95% level)			**Sum of Squares**	**df**	**Mean Square**	**F**	**Sig.**
Percentage of bent grass present * Predominant soil type is silt loam	Between Groups	(Combined)	1.827	1	1.827	.114	.737
	Within Groups		704.977	44	16.022		
	Total		706.804	45			
Percentage of fescue grass present * Predominant soil type is silt loam	Between Groups	(Combined)	48.700	1	48.700	.645	.426
	Within Groups		3321.409	44	75.487		
	Total		3370.109	45			
Percentage of rye grass present * Predominant soil type is silt loam	Between Groups	(Combined)	.080	1	.080	.000	.986
	Within Groups		12141.159	44	275.935		
	Total		12141.239	45			
Percentage of timothy grass present * Predominant soil type is silt loam	Between Groups	(Combined)	3.335	1	3.335	.565	.456
	Within Groups		271.644	46	5.905		
	Total		274.979	47			
Percentage of annual meadow grass present * Predominant soil type is silt loam	Between Groups	(Combined)	240.167	1	240.167	1.709	.198
	Within Groups		6181.659	44	140.492		
	Total		6421.826	45			
Percentage of rough stalked meadow grass present * Predominant soil type is silt loam	Between Groups	(Combined)	5.178	1	5.178	.327	.570
	Within Groups		712.311	45	15.829		
	Total		717.489	46			
Percentage of smooth stalked meadow grass present * Predominant soil type is silt loam	Between Groups	(Combined)	11.001	1	11.001	.089	.767
	Within Groups		5700.978	46	123.934		
	Total		5711.979	47			
Percentage of other grass present * Predominant soil type is silt loam	Between Groups	(Combined)	11.501	1	11.501	.586	.448
	Within Groups		902.978	46	19.630		
	Total		914.479	47			

Grass species present on racecourses with a predominantly sandy silt loam soil type

Predominant soil type is sandy silt loam	**Bent grass** (%)	**Fescue grass** (%)	**Rye grass** (%)	**Timothy grass** (%)	**Annual meadow grass** (%)	**Rough stalked meadow grass** (%)	**Smooth stalked meadow grass** (%)	**Other grass** (%)
Yes								
Mean	2.00	7.25	66.75	2.50	8.00	5.25	3.50	4.75
N	4	4	4	4	4	4	4	4
S.E.	1.08	4.39	6.50	2.50	2.97	2.75	2.26	4.11
No								
Mean	4.12	10.62	65.05	0.89	9.95	1.23	6.07	1.64
N	42	42	42	44	42	43	44	44
S.E.	0.63	1.34	2.60	0.32	1.91	0.56	1.73	0.60
Total								
Mean	3.93	10.33	65.20	1.02	9.78	1.57	5.85	1.90
N	46	46	46	48	46	47	48	48
S.E.	0.58	1.28	2.42	0.35	1.76	0.58	1.59	0.64

ANOVA Table: Sandy Silt Loam soil type (95% level)			**Sum of Squares**	**df**	**Mean Square**	**F**	**Sig.**
Percentage of bent grass present * Predominant soil type is sandy silt loam	Between Groups	(Combined)	16.400	1	16.400	1.045	.312
	Within Groups		690.405	44	15.691		
	Total		706.804	45			
Percentage of fescue grass present * Predominant soil type is sandy silt loam	Between Groups	(Combined)	41.454	1	41.454	.548	.463
	Within Groups		3328.655	44	75.651		
	Total		3370.109	45			
Percentage of rye grass present * Predominant soil type is sandy silt loam	Between Groups	(Combined)	10.584	1	10.584	.038	.846
	Within Groups		12130.655	44	275.697		
	Total		12141.239	45			
Percentage of timothy grass present * Predominant soil type is sandy silt loam	Between Groups	(Combined)	9.547	1	9.547	1.655	.205
	Within Groups		265.432	46	5.770		
	Total		274.979	47			
Percentage of annual meadow grass present * Predominant soil type is sandy silt loam	Between Groups	(Combined)	13.921	1	13.921	.096	.759
	Within Groups		6407.905	44	145.634		
	Total		6421.826	45			
Percentage of rough stalked meadow grass present * Predominant soil type is sandy silt loam	Between Groups	(Combined)	59.065	1	59.065	4.037	.051
	Within Groups		658.424	45	14.632		
	Total		717.489	46			
Percentage of smooth stalked meadow grass present * Predominant soil type is sandy silt loam	Between Groups	(Combined)	24.184	1	24.184	.196	.660
	Within Groups		5687.795	46	123.648		
	Total		5711.979	47			
Percentage of other grass present * Predominant soil type is sandy silt loam	Between Groups	(Combined)	35.547	1	35.547	1.860	.179
	Within Groups		878.932	46	19.107		
	Total		914.479	47			

Water Sources and Irrigation Methods

Q1) Percentage of racecourses in England, Scotland and Wales that use irrigation

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	47	79.7	95.9	95.9
	No	2	3.4	4.1	100.0
	Total	49	83.1	100.0	
Missing data		10	16.9		
Total		59	100.0		

Q7) How irrigation requirement is determined

Dichotomy label	Count	Pct of Responses
Decide on irrigation requirement with ET	6	4.4
Decide on irrigation requirement with pe	6	4.4
Decide on irrigation requirement with we	40	29.4
Decide on irrigation requirement with vi	45	33.1
Decide on irrigation requirement with ti	1	.7
Decide on irrigation requirement with mo	4	2.9
Decide on irrigation requirement with ha	29	21.3
Decide on irrigation requirement with ot	5	3.7
Total responses	136	100.0

11 missing cases; 48 valid cases

Key: ET = Evapotranspiration; pe = Penetrometer; we = Weather forecast; vi = Visual assessment; ti = Timed interval; mo = moisture meter; ha = hard going; ot = Other

Q8) Percentage of sources of irrigation water used on racecourses

	Surface water	Ground water	Mains water	Rain water collected on site	Re-used water	Other water
Flat course						
Total						
Mean	33.93	44.29	18.21	3.57	0.00	0.00
N	28	28	28	28	28	28
S.D.	47.24	47.32	38.87	18.89	0.00	0.00
Hurdle course						
Mean	53.17	33.50	10.00	3.33	0.00	0.00
N	30	30	30	30	30	30
S.D.	47.21	47.21	30.51	18.25	0.00	0.00
Steeplechase course						
Mean	53.17	33.50	10.00	3.33	0.00	0.00
N	30	30	30	30	30	30
S.D.	47.21	47.21	30.51	18.25	0.00	0.00

ANOVA Table: Irrigation water sources used on Flat racecourses
a Too few cases - statistics for Percentage of surface water used for irrigation * Total amount of irrigation water used on flat racecourse cannot be computed.
b Too few cases - statistics for Percentage of ground water used for irrigation * Total amount of irrigation water used on flat racecourse cannot be computed.
c Too few cases - statistics for Percentage of public mains water used for irrigation * Total amount of irrigation water used on flat racecourse cannot be computed.

ANOVA Table: Irrigation water sources used on hurdle racecourses (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Percentage of surface water used for irrigation * Total amount of irrigation water used on hurdle racecourse	Between Groups	(Combined)	23156.410	10	2315.641	.695	.718
	Within Groups		6666.667	2	3333.333		
	Total		29823.077	12			
Percentage of ground water used for irrigation * Total amount of irrigation water used on hurdle racecourse	Between Groups	(Combined)	15925.641	10	1592.564	.478	.826
	Within Groups		6666.667	2	3333.333		
	Total		22592.308	12			
Percentage of public mains water used for irrigation * Total amount of irrigation water used on hurdle racecourse	Between Groups	(Combined)	10256.410	10	1025.641	.308	.918
	Within Groups		6666.667	2	3333.333		
	Total		16923.077	12			

ANOVA Table: Irrigation water sources used on steeplechase racecourses (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Percentage of surface water used for irrigation * Total amount of irrigation water used on steeplechase racecourse	Between Groups	(Combined)	21280.357	10	2128.036	.638	.742
	Within Groups		10000.000	3	3333.333		
	Total		31280.357	13			
Percentage of ground water used for irrigation * Total amount of irrigation water used on steeplechase racecourse	Between Groups	(Combined)	15637.500	10	1563.750	.626	.749
	Within Groups		7500.000	3	2500.000		
	Total		23137.500	13			
Percentage of public mains water used for irrigation * Total amount of irrigation water used on steeplechase racecourse	Between Groups	(Combined)	9642.857	10	964.286	.386	.889
	Within Groups		7500.000	3	2500.000		
	Total		17142.857	13			

a No variance within groups - statistics for Percentage of rain water collected on site used for irrigation * Total amount of irrigation water used on steeplechase racecourse cannot be computed.
b No variance within groups - statistics for Percentage of re-used water used for irrigation * Total amount of irrigation water used on steeplechase racecourse cannot be computed.
c No variance within groups - statistics for Percentage of other water used for irrigation * Total amount of irrigation water used on steeplechase racecourse cannot be computed.

Q13) Number of racecourses that irrigated in 2001

		Frequency	Percent	Valid Percent
Valid	Yes	43	72.9	91.5
	No	4	6.8	8.5
Missing	Not applicable	2	3.4	
	Missing data	10	16.9	
Total		59	100.0	100.0

Q14) Mean total water use in 2001

	Flat course (m^3)	**Hurdle course** (m^3)	**Steeplechase course** (m^3)
Mean	9686.81	5118.38	4609.93
N	16	13	14
S.E.	1949.813	1495.978	1430.001

Mean monthly irrigation per agroclimatic zone for flat racecourses in 2001

Agroclimatic zone of racecourse		**Winter mean monthly irrigation Oct-Apl** (m^3)	**Summer mean monthly irrigation May-Sept** (m^3)
Zone 2	Mean	XX	458.42
	N	XX	2
	Std. Dev	XX	506.17
Zone 3	Mean	14.00	16.50
	N	1	1
	Std. Dev		
Zone 4	Mean	5.38	2013.87
	N	2	7
	Std. Dev	7.60	629.76
Zone 5	Mean	XX	1688.78
	N	2	6
	Std. Dev	XX	990.68
Zone 6	Mean	XX	4339.20
	N	1	2
	Std. Dev	XX	5509.49
Total	Mean	4.13	1880.08
	N	6	18
	Std. Dev	6.47	1844.74

Note: XX = missing data

Mean monthly irrigation per agroclimatic zone for jump racecourses in 2001

Agroclimatic zone of racecourse		**Winter mean monthly irrigation Oct-Apl** (m^3)	**Summer mean monthly irrigation May-Sept** (m^3)
Zone 2	Mean	XX	100.50
	N	XX	1
	Std. Dev	XX	
Zone 3	Mean	507.00	1008.25
	N	2	2
	Std. Dev	697.21	1402.55
Zone 4	Mean	1073.92	3947.73
	N	3	4
	Std. Dev	1850.78	2503.59
Zone 5	Mean	1750.00	3538.89
	N	2	4
	Std. Dev	353.55	1302.08
Zone 6	Mean	XX	8235.00
	N	XX	1
	Std. Dev	XX	
Zone 7	Mean	XX	XX
	N	XX	XX
	Std. Dev	XX	XX
Total	Mean	1105.11	3358.21
	N	7	12
	Std. Dev	1225.56	2572.91

Note: XX = missing data

Summary of irrigation water used in 2001 on racecourses that responded to the questionnaire survey

Racecourse	**Total amount of irrigation water used in 2001 on flat racecourse** (m^3)	**Total amount of irrigation water used in 2001 on hurdle racecourse** (m^3)	**Total amount of irrigation water used in 2001 on steeplechase racecourse** (m^3)
Bangor-on-Dee	Does not have flat racing	9626	9626
Beverley	4176	Does not have hurdle racing	Does not have steeplechase racing
Catterick	3958	Missing data	Missing data
Epsom Downs	12856	Does not have hurdle racing	Does not have steeplechase racing
Goodwood	15911	Does not have hurdle racing	Does not have steeplechase racing
Hamilton Park	1450	Does not have hurdle racing	Does not have steeplechase racing
Haydock Park	Missing data	0	0
Hereford	Does not have flat racing	13636	13636
Hexham	Does not have flat racing	700	700
Leicester	Missing data	Missing data	0
Lingfield Park	9870	Missing data	Missing data

Ludlow	Does not have flat racing	6000	4000
Musselburgh	80	0	0
Newbury	13492	Missing data	Missing data
Newton Abbot	Does not have flat racing	7100	7100
Nottingham	10100	Missing data	Missing data
Perth	Does not have flat racing	4800	4800
Plumpton	Does not have flat racing	84	84
Pontefract	7090	Does not have hurdle racing	Does not have steeplechase racing
Ripon	8067	Does not have hurdle racing	Does not have steeplechase racing
Salisbury	12133	Does not have hurdle racing	Does not have steeplechase racing
Sandown Park	32940	0	0
Stratford on Avon	Does not have flat racing	5465	5465
Thirsk	7779	Does not have hurdle racing	Does not have steeplechase racing
Wetherby	Does not have flat racing	2918	2918
Windsor	2217	Missing data	Missing data
Worcester	Does not have flat racing	16210	16210
York	12870	Does not have hurdle racing	Does not have steeplechase racing

Mean monthly winter/summer irrigation on racecourses in 2001, grouped by their agroclimatic zone

Agroclimatic zone of racecourse		**Winter mean monthly irrigation Oct-Apl** (m^3)	**Summer mean monthly irrigation May-Sept** (m^3)
Zone 2	Mean	XX	458.42
	N	XX	2
	Std. Dev	XX	506.17
Zone 3	Mean	507.00	1008.25
	N	2	2
	Std. Dev	697.21	1402.55
Zone 4	Mean	805.44	2680.06
	N	4	10
	Std. Dev	1603.72	1842.47
Zone 5	Mean	875.00	2446.62
	N	4	9
	Std. Dev	1030.78	1507.48
Zone 6	Mean	0.00	4339.20
	N	1	2
	Std. Dev		5509.49
Zone 7	Mean	XX	XX
	N	XX	XX
	Std. Dev	XX	XX
Total	Mean	703.25	2417.28
	N	11	25
	Std. Dev	1100.94	2051.84

Note: XX = missing data

Mean monthly winter/summer irrigation on flat racecourses in 2001, grouped by their agroclimatic zone

Agroclimatic zone of racecourse		**Winter mean monthly irrigation Oct-Apl** (m^3)	**Summer mean monthly irrigation May-Sept** (m^3)
Zone 2	Mean	XX	458.42
	N	XX	2
	Std. Dev	XX	506.17
Zone 3	Mean	14.00	16.50
	N	1	1
	Std. Dev		
Zone 4	Mean	5.38	2013.87
	N	2	7
	Std. Dev	7.60	629.76
Zone 5	Mean	XX	1688.78
	N	2	6
	Std. Dev	XX	990.68
Zone 6	Mean	XX	4339.20
	N	1	2
	Std. Dev	XX	5509.49
Total	Mean	4.13	1880.08
	N	6	18
	Std. Dev	6.47	1844.74

Mean monthly winter/summer irrigation on hurdle racecourses in 2001, grouped by their agroclimatic zone

Agroclimatic zone of racecourse		**Winter mean monthly irrigation Oct-Apl** (m^3)	**Summer mean monthly irrigation May-Sept** (m^3)
Zone 2	Mean	XX	100.50
	N	XX	1
	Std. Dev	XX	
Zone 3	Mean	507.00	1008.25
	N	2	2
	Std. Dev	697.21	1402.55
Zone 4	Mean	1073.92	3947.73
	N	3	4
	Std. Dev	1850.78	2503.59
Zone 5	Mean	1750.00	3538.89
	N	2	4
	Std. Dev	353.55	1302.08
Zone 6	Mean	XX	8235.00
	N	XX	1
	Std. Dev	XX	
Zone 7	Mean	XX	XX
	N	XX	XX
	Std. Dev	XX	XX
Total	Mean	1105.11	3358.21
	N	7	12
	Std. Dev	1225.56	2572.91

Note: XX = missing data

Mean monthly winter/summer irrigation on steeplechase racecourses in 2001, grouped by their agroclimatic zone

Agroclimatic zone of racecourse		**Winter mean monthly irrigation Oct-Apl** (m^3)	**Summer mean monthly irrigation May-Sept** (m^3)
Zone 2	Mean	XX	100.50
	N	XX	1
	Std. Dev	XX	
Zone 3	Mean	507.00	1008.25
	N	2	2
	Std. Dev	697.21	1402.55
Zone 4	Mean	1073.92	3947.73
	N	3	4
	Std. Dev	1850.78	2503.59
Zone 5	Mean	1750.00	3538.89
	N	2	4
	Std. Dev	353.55	1302.08
Zone 6	Mean	XX	8235.00
	N	XX	1
	Std. Dev	XX	
Zone 7	Mean	XX	XX
	N	XX	XX
	Std. Dev	XX	XX
Total	Mean	1105.11	3358.21
	N	7	12
	Std. Dev	1225.56	2572.91

Note: XX = missing data

Water use for racecourses by race type and predominant soil

Total amount of irrigation water used in 2001 on racecourses in England, Scotland and Wales with a predominantly sand soil type

Predominant soil type is sand	**Flat course** (m^3)	**Hurdle course** (m^3)	**Steeplechase course** (m^3)
No			
Mean	9686.81	5118.38	4609.93
N	16	13	14
S.E.	1949.813	1495.978	1430.001
Total			
Mean	9686.81	5118.38	4609.93
N	16	13	14
S.E.	1949.813	1495.978	1430.001

ANOVA Table: Water use in 2001 on racecourses with a predominantly sand type soil

a Fewer than two groups - statistics for Total amount of irrigation water used in 2001 on flat racecourse * Predominant soil type is sand cannot be computed.

b Fewer than two groups - statistics for Total amount of irrigation water used in 2001 on hurdle racecourse * Predominant soil type is sand cannot be computed.

c Fewer than two groups - statistics for Total amount of irrigation water used in 2001 on steeplechase racecourse * Predominant soil type is sand cannot be computed.

Total amount of irrigation water used in 2001 on racecourses with a predominantly sandy loam soil type

Predominant soil type is sandy loam	**Flat course** (m^3)	**Hurdle course** (m^3)	**Steeplechase course** (m^3)
Yes			
Mean	11946.29	2000.00	1333.33
N	7	3	3
S.E.	4031.658	2000.000	1333.333
No			
Mean	7929.44	6053.90	5503.55
N	9	10	11
S.E.	1519.384	1786.354	1706.973
Total			
Mean	9686.81	5118.38	4609.93
N	16	13	14
S.E.	1949.813	1495.978	1430.001

ANOVA Table: Water use in 2001 on racecourses with a predominantly sandy loam type soil (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Total amount of irrigation water used in 2001 on flat racecourse * Predominant soil type is sandy loam	Between Groups	(Combined)	63531616.787	1	63531616.787	1.048	.323
	Within Groups		848892969.651	14	60635212.118		
	Total		912424586.438	15			
Total amount of irrigation water used in 2001 on hurdle racecourse * Predominant soil type is sandy loam	Between Groups	(Combined)	37924858.177	1	37924858.177	1.341	.271
	Within Groups		311195424.900	11	28290493.173		
	Total		349120283.077	12			
Total amount of irrigation water used in 2001 on steeplechase racecourse * Predominant soil type is sandy loam	Between Groups	(Combined)	40992291.535	1	40992291.535	1.485	.246
	Within Groups		331180005.394	12	27598333.783		
	Total		372172296.929	13			

Total amount of irrigation water used in 2001 on racecourses with a predominantly sandy clay loam soil type

Predominant soil type is sandy clay loam	Flat course (m^3)	Hurdle course (m^3)	Steeplechase course (m^3)
Yes			
Mean	12812.50	.00	.00
N	2	1	1
S.E.	679.500	.	.
No			
Mean	9240.29	5544.92	4964.54
N	14	12	13
S.E.	2210.328	1558.795	1496.333
Total			
Mean	9686.81	5118.38	4609.93
N	16	13	14
S.E.	1949.813	1495.978	1430.001

ANOVA Table: Water use in 2001 on racecourses with a predominantly sandy clay loam type soil (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Total amount of irrigation water used in 2001 on flat racecourse * Predominant soil type is sandy clay loam	Between Groups	(Combined)	22331251.080	1	22331251.080	.351	.563
	Within Groups		890093335.357	14	63578095.383		
	Total		912424586.438	15			
Total amount of irrigation water used in 2001 on hurdle racecourse * Predominant soil type is sandy clay loam	Between Groups	(Combined)	28381016.160	1	28381016.160	.973	.345
	Within Groups		320739266.917	11	29158115.174		
	Total		349120283.077	12			
Total amount of irrigation water used in 2001 on steeplechase racecourse * Predominant soil type is sandy clay loam	Between Groups	(Combined)	22886167.698	1	22886167.698	.786	.393
	Within Groups		349286129.231	12	29107177.436		
	Total		372172296.929	13			

Total amount of irrigation water used in 2001 on racecourses in England, Scotland and Wales with a predominantly sandy clay soil type

Predominant soil type is sandy clay	**Flat course** (m^3)	**Hurdle course** (m^3)	**Steeplechase course** (m^3)
No			
Mean	9686.81	5118.38	4609.93
N	16	13	14
Std. Error of Mean	1949.813	1495.978	1430.001
Total			
Mean	9686.81	5118.38	4609.93
N	16	13	14
Std. Error of Mean	1949.813	1495.978	1430.001

ANOVA Table: Water use in 2001 on racecourses with a predominantly sandy clay type soil

a Fewer than two groups - statistics for Total amount of irrigation water used in 2001 on flat racecourse * Predominant soil type is sandy clay cannot be computed.

b Fewer than two groups - statistics for Total amount of irrigation water used in 2001 on hurdle racecourse * Predominant soil type is sandy clay cannot be computed.

c Fewer than two groups - statistics for Total amount of irrigation water used in 2001 on steeplechase racecourse * Predominant soil type is sandy clay cannot be computed.

Total amount of irrigation water used in 2001 on racecourses in England, Scotland and Wales with a predominantly clay loam soil type

Predominant soil type is clay loam	**Flat course** (m^3)	**Hurdle course** (m^3)	**Steeplechase course** (m^3)
Yes			
Mean	8414.60	4414.67	3311.00
N	5	3	4
S.E.	1445.854	2683.181	2194.951
No			
Mean	10265.09	5329.50	5129.50
N	11	10	10
S.E.	2794.221	1837.850	1840.622
Total			
Mean	9686.81	5118.38	4609.93
N	16	13	14
S.E.	1949.813	1495.978	1430.001

ANOVA Table: Water use in 2001 on racecourses with a predominantly clay loam type soil (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Total amount of irrigation water used in 2001 on flat racecourse * Predominant soil type is clay loam	Between Groups	(Combined)	11771088.328	1	11771088.328	.183	.675
	Within Groups		900653498.109	14	64332392.722		
	Total		912424586.438	15			
Total amount of irrigation water used in 2001 on hurdle racecourse * Predominant soil type is clay loam	Between Groups	(Combined)	1931353.910	1	1931353.910	.061	.809
	Within Groups		347188929.167	11	31562629.924		
	Total		349120283.077	12			
Total amount of irrigation water used in 2001 on steeplechase racecourse * Predominant soil type is clay loam	Between Groups	(Combined)	9448406.429	1	9448406.429	.313	.586
	Within Groups		362723890.500	12	30226990.875		
	Total		372172296.929	13			

Total amount of irrigation water used in 2001 on racecourses in England, Scotland and Wales with a predominantly clay soil type

Predominant soil type is clay	**Flat course** (m^3)	**Hurdle course** (m^3)	**Steeplechase course** (m^3)
Yes			
Mean	0.00	4216.33	4216.33
N	0.00	3	3
S.E.	0.00	2119.390	2119.390
No			
Mean	9686.81	5389.00	4717.27
N	16	10	11
S.E.	1949.813	1882.658	1770.028
Total			
Mean	9686.81	5118.38	4609.93
N	16	13	14
S.E.	1949.813	1495.978	1430.001

ANOVA Table: Water use in 2001 on racecourses with a predominantly clay type soil (95% level)

			Sum of Squares	**df**	**Mean Square**	**F**	**Sig.**
Total amount of irrigation water used in 2001 on flat racecourse * Predominant soil type is clay	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		912424586.438	14	65173184.746		
	Total		912424586.438	15			
Total amount of irrigation water used in 2001 on hurdle racecourse * Predominant soil type is clay	Between Groups	(Combined)	3173416.410	1	3173416.410	.101	.757
	Within Groups		345946866.667	11	31449715.152		
	Total		349120283.077	12			
Total amount of irrigation water used in 2001 on steeplechase racecourse * Predominant soil type is clay	Between Groups	(Combined)	591502.080	1	591502.080	.019	.892
	Within Groups		371580794.848	12	30965066.237		
	Total		372172296.929	13			

Total amount of irrigation water used in 2001 on racecourses in England, Scotland and Wales with a predominantly silty clay soil type

Predominant soil type is silty clay	**Flat course** (m^3)	**Hurdle course** (m^3)	**Steeplechase course** (m^3)
Yes			
Mean	1450.00	0.00	0.00
N	1	0.00	0.00
S.E.	.	0.00	0.00
No			
Mean	10235.93	5118.38	4609.93
N	15	13	14
S.E.	2000.067	1495.978	1430.001
Total			
Mean	9686.81	5118.38	4609.93
N	16	13	14
S.E.	1949.813	1495.978	1430.001

ANOVA Table: Water use in 2001 on racecourses with a predominantly silty clay type soil (95% level)

			Sum of Squares	**df**	**Mean Square**	**F**	**Sig.**
Total amount of irrigation water used in 2001 on flat racecourse * Predominant soil type is silty clay	Between Groups	(Combined)	72368085.504	1	72368085.504	1.206	.291
	Within Groups		840056500.933	14	60004035.781		
	Total		912424586.437	15			
Total amount of irrigation water used in 2001 on hurdle racecourse * Predominant soil type is silty clay	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		349120283.077	11	31738207.552		
	Total		349120283.077	12			
Total amount of irrigation water used in 2001 on steeplechase racecourse * Predominant soil type is silty clay	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		372172296.929	12	31014358.077		
	Total		372172296.929	13			

Total amount of irrigation water used in 2001 on racecourses in England, Scotland and Wales with a predominantly silty clay loam soil type

Predominant soil type is silty clay loam	**Flat course** (m^3)	**Hurdle course** (m^3)	**Steeplechase course** (m^3)
Yes			
Mean		9218.00	9218.00
N		2	2
S.E.		4418.000	4418.000
No			
Mean	9686.81	4373.00	3841.92
N	16	11	12
S.E.	1949.813	1567.736	1465.740
Total			
Mean	9686.81	5118.38	4609.93
N	16	13	14
S.E.	1949.813	1495.978	1430.001

ANOVA Table: Water use in 2001 on racecourses with a predominantly silty clay loam type soil (95% level)

			Sum of Squares	**df**	**Mean Square**	**F**	**Sig.**
Total amount of irrigation water used in 2001 on flat racecourse * Predominant soil type is silty clay loam	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		912424586.438	14	65173184.746		
	Total		912424586.438	15			
Total amount of irrigation water used in 2001 on hurdle racecourse * Predominant soil type is silty clay loam	Between Groups	(Combined)	39725273.077	1	39725273.077	1.412	.260
	Within Groups		309395010.000	11	28126819.091		
	Total		349120283.077	12			
Total amount of irrigation water used in 2001 on steeplechase racecourse * Predominant soil type is silty clay loam	Between Groups	(Combined)	49546752.012	1	49546752.012	1.843	.200
	Within Groups		322625544.917	12	26885462.076		
	Total		372172296.929	13			

Total amount of irrigation water used in 2001 on racecourses in England, Scotland and Wales with a predominantly silty loam soil type

Predominant soil type is silt loam	**Flat course** (m^3)	**Hurdle course** (m^3)	**Steeplechase course** (m^3)
No			
Mean	9686.81	5118.38	4609.93
N	16	13	14
S.E.	1949.813	1495.978	1430.001
Total			
Mean	9686.81	5118.38	4609.93
N	16	13	14
S.E.	1949.813	1495.978	1430.001

ANOVA Table: Water use in 2001 on racecourses with a predominantly silty loam type soil

a Fewer than two groups - statistics for Total amount of irrigation water used in 2001 on flat racecourse * Predominant soil type is silt loam cannot be computed.

b Fewer than two groups - statistics for Total amount of irrigation water used in 2001 on hurdle racecourse * Predominant soil type is silt loam cannot be computed.

c Fewer than two groups - statistics for Total amount of irrigation water used in 2001 on steeplechase racecourse * Predominant soil type is silt loam cannot be computed.

Total amount of irrigation water used in 2001 on racecourses in England, Scotland and Wales with a predominantly sandy silt loam soil type

Predominant soil type is sandy silt loam	**Flat course** (m^3)	**Hurdle course** (m^3)	**Steeplechase course** (m^3)
Yes			
Mean	2217.00	16210.00	16210.00
N	1	1	1
S.E.			
No			
Mean	10184.80	4194.08	3717.62
N	15	12	13
S.E.	2015.306	1278.743	1206.977
Total			
Mean	9686.81	5118.38	4609.93
N	16	13	14
S.E.	1949.813	1495.978	1430.001

ANOVA Table: Water use in 2001 on racecourses with a predominantly sandy silt loam type soil (95% level)

			Sum of Squares	**df**	**Mean Square**	**F**	**Sig.**
Total amount of irrigation water used in 2001 on flat racecourse * Predominant soil type is sandy silt loam	Between Groups	(Combined)	59517972.037	1	59517972.037	.977	.340
	Within Groups		852906614.400	14	60921901.029		
	Total		912424586.438	15			
Total amount of irrigation water used in 2001 on hurdle racecourse * Predominant soil type is sandy silt loam	Between Groups	(Combined)	133275926.160	1	133275926.160	6.792	.024
	Within Groups		215844356.917	11	19622214.265		
	Total		349120283.077	12			
Total amount of irrigation water used in 2001 on steeplechase racecourse * Predominant soil type is sandy silt loam	Between Groups	(Combined)	144912553.852	1	144912553.852	7.652	.017
	Within Groups		227259743.077	12	18938311.923		
	Total		372172296.929	13			

Q16) Percentage of different application methods of irrigation water in 2001

Racecourse type	Static or hand-moved sprinklers (%)	Hose reel and rain guns (%)	Hose reel and booms (%)	Hose and hand held spray gun (%)	Pop-up sprinklers (%)	Other method (%)
Flat						
Mean	27.42	0.85	53.42	0.00	17.59	0.00
N	26	27	26	27	27	27
S.D.	39.61	3.85	43.98	0.00	36.88	0.00
Hurdle						
Mean	46.08	16.96	30.54	0.00	5.56	0.00
N	26	27	26	27	27	27
S.D.	47.99	33.67	41.90	0.00	18.87	0.00
Steeplechase						
Mean	46.08	16.96	30.54	0.00	5.56	0.00
N	26	27	26	27	27	27
S.D.	47.99	33.67	41.90	0.00	18.87	0.00

ANOVA Table: Irrigation application methods on flat racecourses

a No variance within groups - statistics for Percentage of irrigation carried out with static or hand-moved sprinklers * Total amount of irrigation water used on flat racecourse cannot be computed.

b Too few cases - statistics for Percentage of irrigation carried out with hose reel and rain guns * Total amount of irrigation water used on flat racecourse cannot be computed.

c No variance within groups - statistics for Percentage of irrigation carried out with hose reel and booms * Total amount of irrigation water used on flat racecourse cannot be computed.

d Too few cases - statistics for Percentage of irrigation carried out with hose and hand held spray gun * Total amount of irrigation water used on flat racecourse cannot be computed.

e Too few cases - statistics for Percentage of irrigation carried out with pop-up sprinklers * Total amount of irrigation water used on flat racecourse cannot be computed.

f Too few cases - statistics for Percentage of irrigation carried out with other method * Total amount of irrigation water used on flat racecourse cannot be computed.

ANOVA Table: Irrigation application methods on hurdle racecourse (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Percentage of irrigation carried out with static or hand-moved sprinklers * Total amount of irrigation water used on hurdle racecourse	Between Groups	(Combined)	25166.667	10	2516.667	3.146	.415
	Within Groups		800.000	1	800.000		
	Total		25966.667	11			
Percentage of irrigation carried out with hose reel and booms * Total amount of irrigation water used on hurdle racecourse	Between Groups	(Combined)	12366.667	10	1236.667	1.546	.560
	Within Groups		800.000	1	800.000		
	Total		13166.667	11			

a No variance within groups - statistics for Percentage of irrigation carried out with hose reel and rain guns * Total amount of irrigation water used on hurdle racecourse cannot be computed.
b No variance within groups - statistics for Percentage of irrigation carried out with hose and hand held spray gun * Total amount of irrigation water used on hurdle racecourse cannot be computed.
c No variance within groups - statistics for Percentage of irrigation carried out with pop-up sprinklers * Total amount of irrigation water used on hurdle racecourse cannot be computed.
d No variance within groups - statistics for Percentage of irrigation carried out with other method * Total amount of irrigation water used on hurdle racecourse cannot be computed.

ANOVA Table: Irrigation application methods on steeplechase racecourses (95% level)

			Sum of Squares	**df**	**Mean Square**	**F**	**Sig.**
Percentage of irrigation carried out with static or hand-moved sprinklers * Total amount of irrigation water used on steeplechase racecourse	Between Groups	(Combined)	27896.410	10	2789.641	5.995	.151
	Within Groups		930.667	2	465.333		
	Total		28827.077	12			
Percentage of irrigation carried out with hose reel and booms * Total amount of irrigation water used on steeplechase racecourse	Between Groups	(Combined)	11182.564	10	1118.256	1.012	.594
	Within Groups		2210.667	2	1105.333		
	Total		13393.231	12			
Percentage of irrigation carried out with pop-up sprinklers * Total amount of irrigation water used on steeplechase racecourse	Between Groups	(Combined)	642.857	10	64.286	.071	.999
	Within Groups		2700.000	3	900.000		
	Total		3342.857	13			

a No variance within groups - statistics for Percentage of irrigation carried out with hose reel and rain guns * Total amount of irrigation water used in 2001 on steeplechase racecourse cannot be computed.
b No variance within groups - statistics for Percentage of irrigation carried out with hose and hand held spray gun * Total amount of irrigation water used in 2001 on steeplechase racecourse cannot be computed.
c No variance within groups - statistics for Percentage of irrigation carried out with other method * Total amount of irrigation water used in 2001 on steeplechase racecourse cannot be computed.

Cancelled race days

Types of race cancellations

a) There are fewer than two groups for dependent variable Number of cancelled flat race days between 1991-2001 due to frozen ground. No statistics are computed.
b) Post hoc tests are not performed for Number of cancelled jump race days between 1991-2001 due to frozen ground because there are fewer than three groups.
c) Post hoc tests are not performed for Number of cancelled flat race days between 1991-2001 due to water logging because there are fewer than three groups.
d) There are fewer than two groups for dependent variable Number of cancelled jump race days between 1991-2001 due to water logging. No statistics are computed.
e) There are fewer than two groups for dependent variable Number of cancelled flat race days between 1991-2001 due to other reasons. No statistics are computed.
f) There are fewer than two groups for dependent variable Number of cancelled jump race days between 1991-2001 due to other reasons. No statistics are computed.

ANOVA table: Types of race cancellation (95% level)

		Sum of Squares	df	Mean Square	F	Sig.
Number of cancelled jump race days between 1991-2001 due to frozen ground	Between Groups	2.024	1	2.024	.085	.773
	Within Groups	499.455	21	23.784		
	Total	501.478	22			
Number of cancelled flat race days between 1991-2001 due to water logging	Between Groups	.095	1	.095	.007	.933
	Within Groups	285.864	22	12.994		
	Total	285.958	23			

Q19) Cancelled race days between 1991-2001 on a predominantly sand soil type

Predominant soil type is sand	Flat race days due to frozen ground	Jump race days due to frozen ground	Flat race days due to water logging	Jump race days due to water logging	Flat race days due to other reasons	Jump race days due to other reasons
Yes						
Mean		5.00	4.00			
N		1	2			
S.E.			2.00			
No						
Mean	0.44	6.45	3.77	6.00	3.13	3.82
N	9	22	22	23	15	17
S.E.	0.44	1.04	0.78	1.11	1.21	0.85
Total						
Mean	0.44	6.39	3.79	6.00	3.13	3.82
N	9	23	24	23	15	17
S.E.	0.44	0.99	0.72	1.11	1.21	0.85

ANOVA Table: Cancelled race days on a predominantly sand soil type (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Number of cancelled flat race days between 1991-2001 due to frozen ground * Predominant soil type is sand	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		14.222	7	2.032		
	Total		14.222	8			
Number of cancelled jump race days between 1991-2001 due to frozen ground * Predominant soil type is sand	Between Groups	(Combined)	2.024	1	2.024	.085	.773
	Within Groups		499.455	21	23.784		
	Total		501.478	22			
Number of cancelled flat race days between 1991-2001 due to water logging * Predominant soil type is sand	Between Groups	(Combined)	.095	1	.095	.007	.933
	Within Groups		285.864	22	12.994		
	Total		285.958	23			
Number of cancelled jump race days between 1991-2001 due to water logging * Predominant soil type is sand	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		622.000	21	29.619		
	Total		622.000	22			
Number of cancelled flat race days between 1991-2001 due to other reasons * Predominant soil type is sand	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		309.733	13	23.826		
	Total		309.733	14			
Number of cancelled jump race days between 1991-2001 due to other reasons * Predominant soil type is sand	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		196.471	15	13.098		
	Total		196.471	16			

Cancelled race days between 1991-2001 on a predominantly sandy loam soil type

Predominant soil type is sandy loam	**Flat race days due to frozen ground**	**Jump race days due to frozen ground**	**Flat race days due to water logging**	**Jump race days due to water logging**	**Flat race days due to other reasons**	**Jump race days due to other reasons**
Yes						
Mean	0.00	6.57	2.86	3.57	2.50	2.25
N	3	7	7	7	6	4
S.E.	0.00	2.26	1.42	1.65	1.52	0.95
No						
Mean	0.67	6.31	4.18	7.06	3.56	4.31
N	6	16	17	16	9	13
S.E.	0.67	1.09	0.84	1.37	1.81	1.05
Total						
Mean	0.44	6.39	3.79	6.00	3.13	3.82
N	9	23	24	23	15	17
S.E.	0.44	0.99	0.72	1.11	1.21	0.85

ANOVA Table: Cancelled race days on a predominantly sandy loam soil type (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Number of cancelled flat race days between 1991-2001 due to frozen ground * Predominant soil type is sandy loam	Between Groups	(Combined)	.889	1	.889	.467	.516
	Within Groups		13.333	7	1.905		
	Total		14.222	8			
Number of cancelled jump race days between 1991-2001 due to frozen ground * Predominant soil type is sandy loam	Between Groups	(Combined)	.326	1	.326	.014	.908
	Within Groups		501.152	21	23.864		
	Total		501.478	22			
Number of cancelled flat race days between 1991-2001 due to water logging * Predominant soil type is sandy loam	Between Groups	(Combined)	8.631	1	8.631	.685	.417
	Within Groups		277.328	22	12.606		
	Total		285.958	23			
Number of cancelled jump race days between 1991-2001 due to water logging * Predominant soil type is sandy loam	Between Groups	(Combined)	59.348	1	59.348	2.215	.152
	Within Groups		562.652	21	26.793		
	Total		622.000	22			
Number of cancelled flat race days between 1991-2001 due to other reasons * Predominant soil type is sandy loam	Between Groups	(Combined)	4.011	1	4.011	.171	.686
	Within Groups		305.722	13	23.517		
	Total		309.733	14			
Number of cancelled jump race days between 1991-2001 due to other reasons * Predominant soil type is sandy loam	Between Groups	(Combined)	12.951	1	12.951	1.059	.320
	Within Groups		183.519	15	12.235		
	Total		196.471	16			

Cancelled race days between 1991-2001 on a predominantly sandy clay loam soil type

Predominant soil type is sandy clay loam	Flat race days due to frozen ground	Jump race days due to frozen ground	Flat race days due to water logging	Jump race days due to water logging	Flat race days due to other reasons	Jump race days due to other reasons
Yes						
Mean	0.00	6.50	4.50	5.80	3.00	3.40
N	2	6	4	5	4	5
S.E.	0.00	2.14	1.55	2.33	2.04	1.25
No						
Mean	0.57	6.35	3.65	6.06	3.18	4.00
N	7	17	20	18	11	12
S.E.	0.57	1.16	0.82	1.29	1.54	1.12
Total						
Mean	0.44	6.39	3.79	6.00	3.13	3.82
N	9	23	24	23	15	17
S.E.	0.44	0.99	0.72	1.11	1.21	0.85

ANOVA Table: Cancelled race days on a predominantly sandy clay loam soil type (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Number of cancelled flat race days between 1991-2001 due to frozen ground * Predominant soil type is sandy clay loam	Between Groups	(Combined)	.508	1	.508	.259	.626
	Within Groups		13.714	7	1.959		
	Total		14.222	8			
Number of cancelled jump race days between 1991-2001 due to frozen ground * Predominant soil type is sandy clay loam	Between Groups	(Combined)	.096	1	.096	.004	.950
	Within Groups		501.382	21	23.875		
	Total		501.478	22			
Number of cancelled flat race days between 1991-2001 due to water logging * Predominant soil type is sandy clay loam	Between Groups	(Combined)	2.408	1	2.408	.187	.670
	Within Groups		283.550	22	12.889		
	Total		285.958	23			
Number of cancelled jump race days between 1991-2001 due to water logging * Predominant soil type is sandy clay loam	Between Groups	(Combined)	.256	1	.256	.009	.927
	Within Groups		621.744	21	29.607		
	Total		622.000	22			
Number of cancelled flat race days between 1991-2001 due to other reasons * Predominant soil type is sandy clay loam	Between Groups	(Combined)	.097	1	.097	.004	.950
	Within Groups		309.636	13	23.818		
	Total		309.733	14			
Number of cancelled jump race days between 1991-2001 due to other reasons * Predominant soil type is sandy clay loam	Between Groups	(Combined)	1.271	1	1.271	.098	.759
	Within Groups		195.200	15	13.013		
	Total		196.471	16			

Cancelled race days between 1991-2001 on a predominantly sandy clay soil type

Predominant soil type is sandy clay	Flat race days due to frozen ground	Jump race days due to frozen ground	Flat race days due to water logging	Jump race days due to water logging	Flat race days due to other reasons	Jump race days due to other reasons
No						
Mean	0.44	6.39	3.79	6.00	3.13	3.82
N	9	23	24	23	15	17
S.E.	0.44	0.99	0.72	1.11	1.21	0.85
Total						
Mean	0.44	6.39	3.79	6.00	3.13	3.82
N	9	23	24	23	15	17
S.E.	0.44	0.99	0.72	1.11	1.21	0.85

ANOVA Table: Cancelled race days on a predominantly sandy clay soil type

a Fewer than two groups - statistics for Number of cancelled flat race days between 1991-2001 due to frozen ground * Predominant soil type is sandy clay cannot be computed.
b Fewer than two groups - statistics for Number of cancelled jump race days between 1991-2001 due to frozen ground * Predominant soil type is sandy clay cannot be computed.
c Fewer than two groups - statistics for Number of cancelled flat race days between 1991-2001 due to water logging * Predominant soil type is sandy clay cannot be computed.
d Fewer than two groups - statistics for Number of cancelled jump race days between 1991-2001 due to water logging * Predominant soil type is sandy clay cannot be computed.
e Fewer than two groups - statistics for Number of cancelled flat race days between 1991-2001 due to other reasons * Predominant soil type is sandy clay cannot be computed.
f Fewer than two groups - statistics for Number of cancelled jump race days between 1991-2001 due to other reasons * Predominant soil type is sandy clay cannot be computed.

Cancelled race days between 1991-2001 on a predominantly clay loam soil type

Predominant soil type is clay loam	Flat race days due to frozen ground	Jump race days due to frozen ground	Flat race days due to water logging	Jump race days due to water logging	Flat race days due to other reasons	Jump race days due to other reasons
Yes						
Mean	2.00	7.40	4.33	6.00	6.00	5.67
N	2	5	6	5	3	6
S.E.	2.00	2.23	1.26	2.07	5.03	1.99
No						
Mean	0.00	6.11	3.61	6.00	2.42	2.82
N	7	18	18	18	12	11
S.E.	0.00	1.14	0.88	1.32	0.98	0.64
Total						
Mean	0.44	6.39	3.79	6.00	3.13	3.82
N	9	23	24	23	15	17
S.E.	0.44	0.99	0.72	1.11	1.21	0.85

ANOVA Table: Cancelled race days on a predominantly clay loam soil type (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Number of cancelled flat race days between 1991-2001 due to frozen ground * Predominant soil type is clay loam	Between Groups	(Combined)	6.222	1	6.222	5.444	.052
	Within Groups		8.000	7	1.143		
	Total		14.222	8			
Number of cancelled jump race days between 1991-2001 due to frozen ground * Predominant soil type is clay loam	Between Groups	(Combined)	6.500	1	6.500	.276	.605
	Within Groups		494.978	21	23.570		
	Total		501.478	22			
Number of cancelled flat race days between 1991-2001 due to water logging * Predominant soil type is clay loam	Between Groups	(Combined)	2.347	1	2.347	.182	.674
	Within Groups		283.611	22	12.891		
	Total		285.958	23			
Number of cancelled jump race days between 1991-2001 due to water logging * Predominant soil type is clay loam	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		622.000	21	29.619		
	Total		622.000	22			
Number of cancelled flat race days between 1991-2001 due to other reasons * Predominant soil type is clay loam	Between Groups	(Combined)	30.817	1	30.817	1.436	.252
	Within Groups		278.917	13	21.455		
	Total		309.733	14			
Number of cancelled jump race days between 1991-2001 due to other reasons * Predominant soil type is clay loam	Between Groups	(Combined)	31.501	1	31.501	2.864	.111
	Within Groups		164.970	15	10.998		
	Total		196.471	16			

Cancelled race days between 1991-2001 on a predominantly clay soil type

Predominant soil type is clay	**Flat race days due to frozen ground**	**Jump race days due to frozen ground**	**Flat race days due to water logging**	**Jump race days due to water logging**	**Flat race days due to other reasons**	**Jump race days due to other reasons**
Yes						
Mean		3.00		11.50		
N		2		2		
S.E.		1.000		7.500		
No						
Mean	.44	6.71	3.79	5.48	3.13	3.82
N	9	21	24	21	15	17
S.E.	.444	1.063	.720	1.027	1.214	.850
Total						
Mean	0.44	6.39	3.79	6.00	3.13	3.82
N	9	23	24	23	15	17
S.E.	0.44	0.99	0.72	1.11	1.21	0.85

ANOVA Table: Cancelled race days on a predominantly clay soil type (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Number of cancelled flat race days between 1991-2001 due to frozen ground * Predominant soil type is clay	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		14.222	7	2.032		
	Total		14.222	8			
Number of cancelled jump race days between 1991-2001 due to frozen ground * Predominant soil type is clay	Between Groups	(Combined)	25.193	1	25.193	1.111	.304
	Within Groups		476.286	21	22.680		
	Total		501.478	22			
Number of cancelled flat race days between 1991-2001 due to water logging * Predominant soil type is clay	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		285.958	22	12.998		
	Total		285.958	23			
Number of cancelled jump race days between 1991-2001 due to water logging * Predominant soil type is clay	Between Groups	(Combined)	66.262	1	66.262	2.504	.129
	Within Groups		555.738	21	26.464		
	Total		622.000	22			
Number of cancelled flat race days between 1991-2001 due to other reasons * Predominant soil type is clay	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		309.733	13	23.826		
	Total		309.733	14			
Number of cancelled jump race days between 1991-2001 due to other reasons * Predominant soil type is clay	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		196.471	15	13.098		
	Total		196.471	16			

Cancelled race days between 1991-2001 on a predominantly silty clay soil type

Predominant soil type is silty clay	Flat race days due to frozen ground	Jump race days due to frozen ground	Flat race days due to water logging	Jump race days due to water logging	Flat race days due to other reasons	Jump race days due to other reasons
Yes						
Mean			2.00			
N			1			
S.E.						
No						
Mean	0.44	6.39	3.87	6.00	3.13	3.82
N	9	23	23	23	15	17
S.E.	0.44	0.99	0.75	1.11	1.21	0.85
Total						
Mean	0.44	6.39	3.79	6.00	3.13	3.82
N	9	23	24	23	15	17
S.E.	0.44	0.99	0.72	1.11	1.21	0.85

ANOVA Table: Cancelled race days on a predominantly silty clay soil type (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Number of cancelled flat race days between 1991-2001 due to frozen ground * Predominant soil type is silty clay	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		14.222	7	2.032		
	Total		14.222	8			
Number of cancelled jump race days between 1991-2001 due to frozen ground * Predominant soil type is silty clay	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		501.478	21	23.880		
	Total		501.478	22			
Number of cancelled flat race days between 1991-2001 due to water logging * Predominant soil type is silty clay	Between Groups	(Combined)	3.350	1	3.350	.261	.615
	Within Groups		282.609	22	12.846		
	Total		285.958	23			
Number of cancelled jump race days between 1991-2001 due to water logging * Predominant soil type is silty clay	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		622.000	21	29.619		
	Total		622.000	22			
Number of cancelled flat race days between 1991-2001 due to other reasons * Predominant soil type is silty clay	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		309.733	13	23.826		
	Total		309.733	14			
Number of cancelled jump race days between 1991-2001 due to other reasons * Predominant soil type is silty clay	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		196.471	15	13.098		
	Total		196.471	16			

Cancelled race days between 1991-2001 on a predominantly silty clay loam soil type

Predominant soil type is silty clay loam	Flat race days due to frozen ground	Jump race days due to frozen ground	Flat race days due to water logging	Jump race days due to water logging	Flat race days due to other reasons	Jump race days due to other reasons
Yes						
Mean	0.00	7.00	1.00	9.67	0.00	3.00
N	1	2	1	3	1	1
S.E.		3.00		2.67		
No						
Mean	0.50	6.33	3.91	5.45	3.36	3.88
N	8	21	23	20	14	16
S.E.	0.50	1.07	0.74	1.18	1.28	0.90
Total						
Mean	0.44	6.39	3.79	6.00	3.13	3.82
N	9	23	24	23	15	17
S.E.	0.44	0.99	0.72	1.11	1.21	0.85

ANOVA Table: Cancelled race days on a predominantly silty clay loam soil type (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Number of cancelled flat race days between 1991-2001 due to frozen ground * Predominant soil type is silty clay loam	Between Groups	(Combined)	.222	1	.222	.111	.749
	Within Groups		14.000	7	2.000		
	Total		14.222	8			
Number of cancelled jump race days between 1991-2001 due to frozen ground * Predominant soil type is silty clay loam	Between Groups	(Combined)	.812	1	.812	.034	.855
	Within Groups		500.667	21	23.841		
	Total		501.478	22			
Number of cancelled flat race days between 1991-2001 due to water logging * Predominant soil type is silty clay loam	Between Groups	(Combined)	8.132	1	8.132	.644	.431
	Within Groups		277.826	22	12.628		
	Total		285.958	23			
Number of cancelled jump race days between 1991-2001 due to water logging * Predominant soil type is silty clay loam	Between Groups	(Combined)	46.383	1	46.383	1.692	.207
	Within Groups		575.617	21	27.410		
	Total		622.000	22			
Number of cancelled flat race days between 1991-2001 due to other reasons * Predominant soil type is silty clay loam	Between Groups	(Combined)	10.519	1	10.519	.457	.511
	Within Groups		299.214	13	23.016		
	Total		309.733	14			
Number of cancelled jump race days between 1991-2001 due to other reasons * Predominant soil type is silty clay loam	Between Groups	(Combined)	.721	1	.721	.055	.817
	Within Groups		195.750	15	13.050		
	Total		196.471	16			

Cancelled race days between 1991-2001 on a predominantly silt loam soil type

Predominant soil type is silt loam	**Flat race days due to frozen ground**	**Jump race days due to frozen ground**	**Flat race days due to water logging**	**Jump race days due to water logging**	**Flat race days due to other reasons**	**Jump race days due to other reasons**
Yes						
Mean	0.00		1.50		2.00	
N	1		2		1	
S.E.			0.50			
No						
Mean	0.50	6.39	4.00	6.00	3.21	3.82
N	8	23	22	23	14	17
S.E.	0.50	0.99	0.77	1.11	1.30	0.85
Total						
Mean	0.44	6.39	3.79	6.00	3.13	3.82
N	9	23	24	23	15	17
S.E.	0.44	0.99	0.72	1.11	1.21	0.85

ANOVA Table: Cancelled race days on a predominantly silt loam soil type (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Number of cancelled flat race days between 1991-2001 due to frozen ground * Predominant soil type is silt loam	Between Groups	(Combined)	.222	1	.222	.111	.749
	Within Groups		14.000	7	2.000		
	Total		14.222	8			
Number of cancelled jump race days between 1991-2001 due to frozen ground * Predominant soil type is silt loam	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		501.478	21	23.880		
	Total		501.478	22			
Number of cancelled flat race days between 1991-2001 due to water logging * Predominant soil type is silt loam	Between Groups	(Combined)	11.458	1	11.458	.918	.348
	Within Groups		274.500	22	12.477		
	Total		285.958	23			
Number of cancelled jump race days between 1991-2001 due to water logging * Predominant soil type is silt loam	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		622.000	21	29.619		
	Total		622.000	22			
Number of cancelled flat race days between 1991-2001 due to other reasons * Predominant soil type is silt loam	Between Groups	(Combined)	1.376	1	1.376	.058	.813
	Within Groups		308.357	13	23.720		
	Total		309.733	14			
Number of cancelled jump race days between 1991-2001 due to other reasons * Predominant soil type is silt loam	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		196.471	15	13.098		
	Total		196.471	16			

Cancelled race days between 1991-2001 on a predominantly sandy silt loam soil type

Predominant soil type is sandy silt loam	**Flat race days due to frozen ground**	**Jump race days due to frozen ground**	**Flat race days due to water logging**	**Jump race days due to water logging**	**Flat race days due to other reasons**	**Jump race days due to other reasons**
Yes						
Mean			13.00	2.00		2.00
N			1	1		1
S.E.			.	.		.
No						
Mean	0.44	6.39	3.39	6.18	3.13	3.94
N	9	23	23	22	15	16
S.E.	0.44	0.99	0.63	1.15	1.21	0.89
Total						
Mean	0.44	6.39	3.79	6.00	3.13	3.82
N	9	23	24	23	15	17
S.E.	0.44	0.99	0.72	1.11	1.21	0.85

ANOVA Table: Cancelled race days on a predominantly sandy silt loam soil type (95% level)

			Sum of Squares	df	Mean Square	F	Sig.
Number of cancelled flat race days between 1991-2001 due to frozen ground * Predominant soil type is sandy silt loam	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		14.222	7	2.032		
	Total		14.222	8			
Number of cancelled jump race days between 1991-2001 due to frozen ground * Predominant soil type is sandy silt loam	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		501.478	21	23.880		
	Total		501.478	22			
Number of cancelled flat race days between 1991-2001 due to water logging * Predominant soil type is sandy silt loam	Between Groups	(Combined)	88.480	1	88.480	9.857	.005
	Within Groups		197.478	22	8.976		
	Total		285.958	23			
Number of cancelled jump race days between 1991-2001 due to water logging * Predominant soil type is sandy silt loam	Between Groups	(Combined)	16.727	1	16.727	.580	.455
	Within Groups		605.273	21	28.823		
	Total		622.000	22			
Number of cancelled flat race days between 1991-2001 due to other reasons * Predominant soil type is sandy silt loam	Between Groups	(Combined)	.000	1	.000	.000	1.000
	Within Groups		309.733	13	23.826		
	Total		309.733	14			
Number of cancelled jump race days between 1991-2001 due to other reasons * Predominant soil type is sandy silt loam	Between Groups	(Combined)	3.533	1	3.533	.275	.608
	Within Groups		192.938	15	12.863		
	Total		196.471	16			

Sample identifier:

Name: **Location** Catterick

SAMPLE	A) Flat	A) Flat	A) Flat	A) Hurdl	A) Hurdl	A) Hurdl
Tin number	1046	213	1747	1691	1610	131
Wt of wet soil +tin (g)	131.45	125.54	134.48	132.44	137.67	130.46
Wt of dry soil +tin (g)	107.5	104.02	108.72	111.7	115.97	111.31
Wt of tin (g)	71.09	70.93	71.09	74.01	73.23	71.66
Sample volume cm^3	45.81	45.81	45.81	45.81	45.81	45.81
Wt of water (g)	23.95	21.52	25.76	20.74	21.7	19.15
Wt of dry sample (g)	36.41	33.09	37.63	37.69	42.74	39.65
Moisture content %	65.78%	65.03%	68.46%	55.03%	50.77%	48.30%
Dry Bulk Density g/cm^3	0.79	0.72	0.82	0.82	0.93	0.87

SAMPLE	B) Hurdl	B) Hurdl	C) Flat	C) Flat	C) Flat	C) Hurdl
Tin number	225	1736	1035	1613	1525	1683
Wt of wet soil +tin (g)	131.66	126.77	125.82	129.76	132.55	137.41
Wt of dry soil +tin (g)	110.19	106.75	102.76	106.81	109.17	113.73
Wt of tin (g)	67.01	66.7	67.72	69.56	66.36	73.84
Sample volume cm^3	45.81	45.81	45.81	45.81	45.81	45.81
Wt of water (g)	21.47	20.02	23.06	22.95	23.38	23.68
Wt of dry sample (g)	43.18	40.05	35.04	37.25	42.81	39.89
Moisture content %	49.72%	49.99%	65.81%	61.61%	54.61%	59.36%
Dry Bulk Density g/cm^3	0.94	0.87	0.76	0.81	0.93	0.87

SAMPLE	D) Flat	D) Hurdl	D) Hurdl	D) Hurdl	E) Flat	E) Flat
Tin number	262	164	438	1547	250	1535
Wt of wet soil +tin (g)	126.02	134.53	133.6	130.31	136.52	139.11
Wt of dry soil +tin (g)	103.58	122.22	115.01	109.18	111.86	116.04
Wt of tin (g)	67.52	70.95	71.3	67.05	70.37	71.17
Sample volume cm^3	45.81	45.81	45.81	45.81	45.81	45.81
Wt of water (g)	22.44	12.31	18.59	21.13	24.66	23.07
Wt of dry sample (g)	36.06	51.27	43.71	42.13	41.49	44.87
Moisture content %	62.23%	24.01%	42.53%	50.15%	59.44%	51.42%
Dry Bulk Density g/cm^3	0.79	1.12	0.95	0.92	0.91	0.98

SAMPLE	F) Flat	F) Flat	F) Flat	F) Hurdl	F) Hurdl	F) Hurdl
Tin number	1508	624	285	848	1544	810
Wt of wet soil +tin (g)	135.21	125.48	131.28	145.66	141.98	129.1
Wt of dry soil +tin (g)	108.7	100.97	107.45	128.6	122.34	110.8
Wt of tin (g)	70.99	70.08	67.37	71.75	70.62	66.29
Sample volume cm^3	45.81	45.81	45.81	45.81	45.81	45.81
Wt of water (g)	26.51	24.51	23.83	17.06	19.64	18.3
Wt of dry sample (g)	37.71	30.89	40.08	56.85	51.72	44.51
Moisture content %	70.30%	79.35%	59.46%	30.01%	37.97%	41.11%
Dry Bulk Density g/cm^3	0.82	0.67	0.87	1.24	1.13	0.97

SAMPLE	G) Hurdl	G) Hurdl	H) Flat	H) Flat	H) Flat	H) Hurdl
Tin number	423	154	623	23	339	83
Wt of wet soil +tin (g)	135.27	143.76	127.18	125.68	125.94	139.27
Wt of dry soil +tin (g)	113.96	124.14	106.77	105.94	103.43	116.17
Wt of tin (g)	67.53	67.08	67.16	70.72	65.84	70.77
Sample volume cm^3	45.81	45.81	45.81	45.81	45.81	45.81
Wt of water (g)	21.31	19.62	20.41	19.74	22.51	23.1
Wt of dry sample (g)	46.43	57.06	39.61	35.22	37.59	45.4
Moisture content %	45.90%	34.38%	51.53%	56.05%	59.88%	50.88%
Dry Bulk Density g/cm^3	1.01	1.25	0.86	0.77	0.82	0.99

SAMPLE	I) Flat	I) Hurdle	I) Hurdle	I) Hurdle	J) Flat	J) Flat
Tin number	1517	880	1041	786	1513	1002
Wt of wet soil +tin (g)	131.64	134.62	131.55	137.26	130.66	127.68
Wt of dry soil +tin (g)	111.71	114.18	112.43	117.17	106.62	105.04
Wt of tin (g)	66.16	66.91	68.06	67.28	67.37	67.49
Sample volume cm^3	45.81	45.81	45.81	45.81	45.81	45.81
Wt of water (g)	19.93	20.44	19.12	20.09	24.04	22.64
Wt of dry sample (g)	45.55	47.27	44.37	49.89	39.25	37.55
Moisture content %	43.75%	43.24%	43.09%	40.27%	61.25%	60.29%
Dry Bulk Density g/cm^3	0.99	1.03	0.97	1.09	0.86	0.82

SAMPLE	K) Flat	K) Flat	K) Flat	K) Hurdl	K) Hurdl	K) Hurdle
Tin number	544	1571	5	948	1687	787
Wt of wet soil +tin (g)	131.81	131.94	135.57	137.52	141.76	140
Wt of dry soil +tin (g)	108.01	111.44	113.08	117.88	121.68	119.32
Wt of tin (g)	70.4	71.39	71.4	70.53	71.07	70.69
Sample volume cm^3	45.81	45.81	45.81	45.81	45.81	45.81
Wt of water (g)	23.8	20.5	22.49	19.64	20.08	20.68
Wt of dry sample (g)	37.61	40.05	41.68	47.35	50.61	48.63
Moisture content %	63.28%	51.19%	53.96%	41.48%	39.68%	42.53%
Dry Bulk Density g/cm^3	0.82	0.87	0.91	1.03	1.10	1.06

K-Sat ring Bulk Density

SAMPLE	B) Flat	B) Hurdl	D) Hurdl	F) Hurdl	H) Hurdl	J) Flat
Tin number	13	5	3	2	7	1
Wt of wet soil +tin (g)						
Wt of dry soil +tin (g)	2043.49	2073.44	2291.78	2158.07	2239.4	1996.1
Wt of tin (g)	976.1	981.79	992.43	1001.19	1022.9	1025.69
Sample volume cm^3	1021	1021	1021	1021	1021	1021
Wt of water (g)						
Wt of dry sample (g)	1067.39	1091.65	1299.35	1156.88	1216.5	970.41
Moisture content %						
Dry Bulk Density g/cm^3	1.05	1.07	1.27	1.13	1.19	0.95

Date:	16/02/2004		
B) Flat	**B) Flat**	**B) Flat**	**B) Hurdle**
1640	124	37	792
128.84	136.39	138.62	125.55
105.42	112.87	114.92	104.55
67.35	71.71	71.14	70.43
45.81	45.81	45.81	45.81
23.42	23.52	23.7	21
38.07	41.16	43.78	34.12
61.52%	57.14%	54.13%	61.55%
0.83	0.90	0.96	0.74

C) Hurdl	**C) Hurdl**	**D) Flat**	**D) Flat**
749	1519	1572	1710
128.95	135.25	127.52	136.96
108.34	113.89	105.17	111.4
67.62	67.28	70.85	73.48
45.81	45.81	45.81	45.81
20.61	21.36	22.35	25.56
40.72	46.61	34.32	37.92
50.61%	45.83%	65.12%	67.41%
0.89	1.02	0.75	0.83

E) Flat	**E) Hurdl**	**E) Hurdle**	**E) Hurdle**
396	513	822	373
124.38	137.75	127.77	135.72
101.64	117.67	109.53	116.18
67.32	67.51	67.28	71.33
45.81	45.81	45.81	45.81
22.74	20.08	18.24	19.54
34.32	50.16	42.25	44.85
66.26%	40.03%	43.17%	43.57%
0.75	1.09	0.92	0.98

G) Flat	**G) Flat**	**G) Flat**	**G) Hurdle**
1501	1038	231	1593
117.79	136.91	128.29	142.69
92.58	112.81	98.3	126.62
67.15	71.14	66.92	69.79
45.81	45.81	45.81	45.81
25.21	24.1	29.99	16.07
25.43	41.67	31.38	56.83
99.13%	57.84%	95.57%	28.28%
0.56	0.91	0.69	1.24

H) Hurdl	H) Hurdl	I) Flat	I) Flat
895	133	572	1512
139.3	140.28	137.45	135.86
116.63	119.96	113.84	112.08
70.23	71	71.57	67.09
45.81	45.81	45.81	45.81
22.67	20.32	23.61	23.78
46.4	48.96	42.27	44.99
48.86%	41.50%	55.86%	52.86%
1.01	1.07	0.92	0.98

J) Flat	J) Hurdle	J) Hurdle	J) Hurdle
118	1023	1578	1538
124.12	135.77	134.92	132.45
100.3	115.65	115.15	111.05
66.89	66.87	70.02	70.67
45.81	45.81	45.81	45.81
23.82	20.12	19.77	21.4
33.41	48.78	45.13	40.38
71.30%	41.25%	43.81%	53.00%
0.73	1.06	0.99	0.88

e

0	0	0	0
0	0	0	0
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

J) Hurdle			
12			
2217.29			
979.14			
1021			
			0
1238.15	0	0	0
1.21	#DIV/0!	#DIV/0!	#DIV/0!

Race type	Location	Samples	Depth	Measurement
Jump	A	1	1	60.08989827
Jump	A	2	1	180.2696948
Jump	A	3	1	60.08989827
Jump	A	4	1	240.3595931
Jump	A	5	1	240.3595931
Jump	A	1	2	841.2585758
Jump	A	2	2	600.8989827
Jump	A	3	2	540.8090845
Jump	A	4	2	781.1686775
Jump	A	5	2	540.8090845
Jump	A	1	3	540.8090845
Jump	A	2	3	721.0787793
Jump	A	3	3	781.1686775
Jump	A	4	3	781.1686775
Jump	A	5	3	660.988881
Jump	A	1	4	660.988881
Jump	A	2	4	961.4383724
Jump	A	3	4	841.2585758
Jump	A	4	4	1021.528271
Jump	A	5	4	841.2585758
Jump	A	1	5	901.3484741
Jump	A	2	5	901.3484741
Jump	A	3	5	961.4383724
Jump	A	4	5	1562.337355
Jump	A	5	5	841.2585758
Jump	A	1	6	1261.887864
Jump	A	2	6	1442.157559
Jump	A	3	6	1502.247457
Jump	A	4	6	1862.786846
Jump	A	5	6	1562.337355
Jump	A	1	7	1922.876745
Jump	A	2	7	1802.696948
Jump	A	3	7	1982.966643
Jump	A	4	7	1982.966643
Jump	A	5	7	1802.696948
Jump	A	1	8	2283.416134
Jump	A	2	8	2223.326236
Jump	A	3	8	1982.966643
Jump	A	4	8	2103.14644
Jump	A	5	8	2103.14644
Jump	A	1	9	2403.595931
Jump	A	2	9	2523.775727
Jump	A	3	9	1982.966643
Jump	A	4	9	2223.326236
Jump	A	5	9	2103.14644
Jump	A	1	10	2463.685829
Jump	A	2	10	2764.135321
Jump	A	3	10	2403.595931
Jump	A	4	10	2343.506033
Jump	A	5	10	2043.056541
Jump	A	1	11	2583.865626
Jump	A	2	11	2824.225219
Jump	A	3	11	2283.416134

Depth (mm)

Jump	A	4	11	2223.326236
Jump	A	5	11	2163.236338
Jump	A	1	12	2523.775727
Jump	A	2	12	2884.315117
Jump	A	3	12	2463.685829
Jump	A	4	12	2223.326236
Jump	A	5	12	2103.14644
Jump	A	1	13	2283.416134
Jump	A	2	13	2824.225219
Jump	A	3	13	2403.595931
Jump	A	4	13	2283.416134
Jump	A	5	13	2043.056541
Jump	A	1	14	2704.045422
Jump	A	2	14	2704.045422
Jump	A	3	14	2643.955524
Jump	A	4	14	2944.405015
Jump	A	5	14	1982.966643
Jump	A	1	15	
Jump	A	2	15	3124.67471
Jump	A	3	15	3064.584812
Jump	A	4	15	3425.124202
Jump	A	5	15	2043.056541
Jump	B	6	1	360.5393896
Jump	B	7	1	180.2696948
Jump	B	8	1	60.08989827
Jump	B	9	1	240.3595931
Jump	B	10	1	0
Jump	B	6	2	721.0787793
Jump	B	7	2	721.0787793
Jump	B	8	2	540.8090845
Jump	B	9	2	961.4383724
Jump	B	10	2	540.8090845
Jump	B	6	3	841.2585758
Jump	B	7	3	841.2585758
Jump	B	8	3	540.8090845
Jump	B	9	3	1021.528271
Jump	B	10	3	721.0787793
Jump	B	6	4	1201.797965
Jump	B	7	4	901.3484741
Jump	B	8	4	1021.528271
Jump	B	9	4	1141.708067
Jump	B	10	4	841.2585758
Jump	B	6	5	1742.60705
Jump	B	7	5	1442.157559
Jump	B	8	5	1201.797965
Jump	B	9	5	1502.247457
Jump	B	10	5	1261.887864
Jump	B	6	6	1982.966643
Jump	B	7	6	1562.337355
Jump	B	8	6	2163.236338
Jump	B	9	6	1622.427253
Jump	B	10	6	1622.427253
Jump	B	6	7	1982.966643
Jump	B	7	7	1922.876745
Jump	B	8	7	2163.236338

Jump	B	9	7	1982.966643
Jump	B	10	7	1862.786846
Jump	B	6	8	1982.966643
Jump	B	7	8	
Jump	B	8	8	2283.416134
Jump	B	9	8	2764.135321
Jump	B	10	8	2463.685829
Jump	B	6	9	3124.67471
Jump	B	7	9	
Jump	B	8	9	2343.506033
Jump	B	9	9	2944.405015
Jump	B	10	9	2283.416134
Jump	B	6	10	1622.427253
Jump	B	7	10	
Jump	B	8	10	2343.506033
Jump	B	9	10	2583.865626
Jump	B	10	10	1922.876745
Jump	B	6	11	1261.887864
Jump	B	7	11	
Jump	B	8	11	2223.326236
Jump	B	9	11	2463.685829
Jump	B	10	11	1622.427253
Jump	B	6	12	1442.157559
Jump	B	7	12	
Jump	B	8	12	1562.337355
Jump	B	9	12	
Jump	B	10	12	1261.887864
Jump	B	6	13	1562.337355
Jump	B	7	13	
Jump	B	8	13	1862.786846
Jump	B	9	13	
Jump	B	10	13	1502.247457
Jump	B	6	14	1382.06766
Jump	B	7	14	
Jump	B	8	14	1802.696948
Jump	B	9	14	
Jump	B	10	14	1922.876745
Jump	B	6	15	
Jump	B	7	15	
Jump	B	8	15	1502.247457
Jump	B	9	15	
Jump	B	10	15	1682.517152
Jump	C	11	1	180.2696948
Jump	C	12	1	180.2696948
Jump	C	13	1	120.1797965
Jump	C	14	1	180.2696948
Jump	C	15	1	60.08989827
Jump	C	11	2	660.988881
Jump	C	12	2	420.6292879
Jump	C	13	2	1021.528271
Jump	C	14	2	721.0787793
Jump	C	15	2	781.1686775
Jump	C	11	3	1321.977762
Jump	C	12	3	781.1686775
Jump	C	13	3	1382.06766

Jump	C	14	3	1201.797965
Jump	C	15	3	1442.157559
Jump	C	11	4	1802.696948
Jump	C	12	4	1382.06766
Jump	C	13	4	2043.056541
Jump	C	14	4	1862.786846
Jump	C	15	4	1742.60705
Jump	C	11	5	1922.876745
Jump	C	12	5	2283.416134
Jump	C	13	5	2283.416134
Jump	C	14	5	1982.966643
Jump	C	15	5	1802.696948
Jump	C	11	6	2643.955524
Jump	C	12	6	3244.854507
Jump	C	13	6	4206.292879
Jump	C	14	6	2163.236338
Jump	C	15	6	2043.056541
Jump	C	11	7	3485.2141
Jump	C	12	7	3365.034303
Jump	C	13	7	4086.113083
Jump	C	14	7	2163.236338
Jump	C	15	7	2583.865626
Jump	C	11	8	3545.303998
Jump	C	12	8	3124.67471
Jump	C	13	8	4266.382777
Jump	C	14	8	2163.236338
Jump	C	15	8	2583.865626
Jump	C	11	9	3004.494914
Jump	C	12	9	3124.67471
Jump	C	13	9	4266.382777
Jump	C	14	9	2463.685829
Jump	C	15	9	2583.865626
Jump	C	11	10	3665.483795
Jump	C	12	10	3304.944405
Jump	C	13	10	4146.202981
Jump	C	14	10	2283.416134
Jump	C	15	10	3545.303998
Jump	C	11	11	2463.685829
Jump	C	12	11	
Jump	C	13	11	3485.2141
Jump	C	14	11	3785.663591
Jump	C	15	11	3184.764608
Jump	C	11	12	1682.517152
Jump	C	12	12	
Jump	C	13	12	3485.2141
Jump	C	14	12	3725.573693
Jump	C	15	12	1862.786846
Jump	C	11	13	1382.06766
Jump	C	12	13	
Jump	C	13	13	3485.2141
Jump	C	14	13	3605.393896
Jump	C	15	13	1562.337355
Jump	C	11	14	1502.247457
Jump	C	12	14	
Jump	C	13	14	3124.67471

Jump	C	14	14	3425.124202
Jump	C	15	14	1622.427253
Jump	C	11	15	1622.427253
Jump	C	12	15	
Jump	C	13	15	2824.225219
Jump	C	14	15	2824.225219
Jump	C	15	15	1502.247457
Jump	D	16	1	60.08989827
Jump	D	17	1	60.08989827
Jump	D	18	1	240.3595931
Jump	D	19	1	0
Jump	D	20	1	240.3595931
Jump	D	16	2	540.8090845
Jump	D	17	2	660.988881
Jump	D	18	2	721.0787793
Jump	D	19	2	841.2585758
Jump	D	20	2	721.0787793
Jump	D	16	3	1021.528271
Jump	D	17	3	1261.887864
Jump	D	18	3	961.4383724
Jump	D	19	3	1141.708067
Jump	D	20	3	841.2585758
Jump	D	16	4	1382.06766
Jump	D	17	4	1622.427253
Jump	D	18	4	1201.797965
Jump	D	19	4	1081.618169
Jump	D	20	4	901.3484741
Jump	D	16	5	2103.14644
Jump	D	17	5	2583.865626
Jump	D	18	5	1141.708067
Jump	D	19	5	1321.977762
Jump	D	20	5	1081.618169
Jump	D	16	6	3485.2141
Jump	D	17	6	2583.865626
Jump	D	18	6	1802.696948
Jump	D	19	6	1622.427253
Jump	D	20	6	1862.786846
Jump	D	16	7	3785.663591
Jump	D	17	7	1802.696948
Jump	D	18	7	2223.326236
Jump	D	19	7	2043.056541
Jump	D	20	7	1982.966643
Jump	D	16	8	3965.933286
Jump	D	17	8	1321.977762
Jump	D	18	8	2163.236338
Jump	D	19	8	2043.056541
Jump	D	20	8	1982.966643
Jump	D	16	9	2403.595931
Jump	D	17	9	1922.876745
Jump	D	18	9	1982.966643
Jump	D	19	9	1922.876745
Jump	D	20	9	1982.966643
Jump	D	16	10	1862.786846
Jump	D	17	10	1922.876745
Jump	D	18	10	1982.966643

Jump	D	19	10	1862.786846
Jump	D	20	10	1982.966643
Jump	D	16	11	1862.786846
Jump	D	17	11	1622.427253
Jump	D	18	11	1862.786846
Jump	D	19	11	1502.247457
Jump	D	20	11	1982.966643
Jump	D	16	12	1622.427253
Jump	D	17	12	1862.786846
Jump	D	18	12	1742.60705
Jump	D	19	12	1442.157559
Jump	D	20	12	2043.056541
Jump	D	16	13	2163.236338
Jump	D	17	13	1622.427253
Jump	D	18	13	1622.427253
Jump	D	19	13	1382.06766
Jump	D	20	13	1862.786846
Jump	D	16	14	
Jump	D	17	14	1982.966643
Jump	D	18	14	1442.157559
Jump	D	19	14	1502.247457
Jump	D	20	14	1922.876745
Jump	D	16	15	
Jump	D	17	15	3665.483795
Jump	D	18	15	1502.247457
Jump	D	19	15	1682.517152
Jump	D	20	15	1862.786846
Jump	E	21	1	180.2696948
Jump	E	22	1	420.6292879
Jump	E	23	1	60.08989827
Jump	E	24	1	300.4494914
Jump	E	25	1	60.08989827
Jump	E	21	2	540.8090845
Jump	E	22	2	540.8090845
Jump	E	23	2	360.5393896
Jump	E	24	2	660.988881
Jump	E	25	2	781.1686775
Jump	E	21	3	420.6292879
Jump	E	22	3	781.1686775
Jump	E	23	3	721.0787793
Jump	E	24	3	781.1686775
Jump	E	25	3	1201.797965
Jump	E	21	4	901.3484741
Jump	E	22	4	1081.618169
Jump	E	23	4	1081.618169
Jump	E	24	4	1141.708067
Jump	E	25	4	1382.06766
Jump	E	21	5	1321.977762
Jump	E	22	5	1141.708067
Jump	E	23	5	1502.247457
Jump	E	24	5	1742.60705
Jump	E	25	5	1502.247457
Jump	E	21	6	1682.517152
Jump	E	22	6	1922.876745
Jump	E	23	6	1802.696948

Jump	E	24	6	1982.966643
Jump	E	25	6	4206.292879
Jump	E	21	7	2463.685829
Jump	E	22	7	2583.865626
Jump	E	23	7	2103.14644
Jump	E	24	7	2283.416134
Jump	E	25	7	2944.405015
Jump	E	21	8	4146.202981
Jump	E	22	8	2944.405015
Jump	E	23	8	2583.865626
Jump	E	24	8	2223.326236
Jump	E	25	8	2523.775727
Jump	E	21	9	2643.955524
Jump	E	22	9	2643.955524
Jump	E	23	9	2523.775727
Jump	E	24	9	2103.14644
Jump	E	25	9	2403.595931
Jump	E	21	10	2043.056541
Jump	E	22	10	2103.14644
Jump	E	23	10	2283.416134
Jump	E	24	10	2223.326236
Jump	E	25	10	2163.236338
Jump	E	21	11	1862.786846
Jump	E	22	11	1862.786846
Jump	E	23	11	2043.056541
Jump	E	24	11	1862.786846
Jump	E	25	11	1982.966643
Jump	E	21	12	1862.786846
Jump	E	22	12	1862.786846
Jump	E	23	12	1862.786846
Jump	E	24	12	2223.326236
Jump	E	25	12	1862.786846
Jump	E	21	13	1802.696948
Jump	E	22	13	1742.60705
Jump	E	23	13	1742.60705
Jump	E	24	13	1922.876745
Jump	E	25	13	1562.337355
Jump	E	21	14	1622.427253
Jump	E	22	14	1622.427253
Jump	E	23	14	1321.977762
Jump	E	24	14	1922.876745
Jump	E	25	14	1622.427253
Jump	E	21	15	1682.517152
Jump	E	22	15	1382.06766
Jump	E	23	15	1382.06766
Jump	E	24	15	1922.876745
Jump	E	25	15	1682.517152
Jump	F	26	1	480.7191862
Jump	F	27	1	180.2696948
Jump	F	28	1	0
Jump	F	29	1	721.0787793
Jump	F	30	1	240.3595931
Jump	F	26	2	540.8090845
Jump	F	27	2	961.4383724
Jump	F	28	2	721.0787793

Jump	F	29	2	1021.528271
Jump	F	30	2	961.4383724
Jump	F	26	3	901.3484741
Jump	F	27	3	1081.618169
Jump	F	28	3	781.1686775
Jump	F	29	3	901.3484741
Jump	F	30	3	1442.157559
Jump	F	26	4	1201.797965
Jump	F	27	4	1622.427253
Jump	F	28	4	1261.887864
Jump	F	29	4	1141.708067
Jump	F	30	4	2523.775727
Jump	F	26	5	1321.977762
Jump	F	27	5	1862.786846
Jump	F	28	5	2103.14644
Jump	F	29	5	2283.416134
Jump	F	30	5	2944.405015
Jump	F	26	6	2043.056541
Jump	F	27	6	2043.056541
Jump	F	28	6	2223.326236
Jump	F	29	6	2764.135321
Jump	F	30	6	2824.225219
Jump	F	26	7	1982.966643
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Flat	T	100	3	540.8090845
Flat	T	96	4	1081.618169
Flat	T	97	4	781.1686775
Flat	T	98	4	1081.618169
Flat	T	99	4	781.1686775
Flat	T	100	4	1081.618169
Flat	T	96	5	1442.157559
Flat	T	97	5	1021.528271
Flat	T	98	5	1021.528271
Flat	T	99	5	1442.157559
Flat	T	100	5	1021.528271
Flat	T	96	6	2043.056541
Flat	T	97	6	1562.337355
Flat	T	98	6	1442.157559
Flat	T	99	6	2163.236338
Flat	T	100	6	1502.247457
Flat	T	96	7	2463.685829
Flat	T	97	7	1742.60705
Flat	T	98	7	1802.696948
Flat	T	99	7	2704.045422
Flat	T	100	7	2283.416134
Flat	T	96	8	2403.595931
Flat	T	97	8	2163.236338
Flat	T	98	8	1982.966643
Flat	T	99	8	3064.584812
Flat	T	100	8	2043.056541
Flat	T	96	9	2283.416134
Flat	T	97	9	1982.966643
Flat	T	98	9	2043.056541
Flat	T	99	9	3244.854507
Flat	T	100	9	2223.326236
Flat	T	96	10	2343.506033
Flat	T	97	10	1982.966643
Flat	T	98	10	1802.696948
Flat	T	99	10	2523.775727
Flat	T	100	10	2103.14644
Flat	T	96	11	2043.056541
Flat	T	97	11	1802.696948
Flat	T	98	11	1682.517152
Flat	T	99	11	1982.966643
Flat	T	100	11	1682.517152
Flat	T	96	12	1862.786846
Flat	T	97	12	1682.517152
Flat	T	98	12	1502.247457

Flat	T	99	12	2103.14644
Flat	T	100	12	1682.517152
Flat	T	96	13	1802.696948
Flat	T	97	13	1922.876745
Flat	T	98	13	1562.337355
Flat	T	99	13	1982.966643
Flat	T	100	13	1622.427253
Flat	T	96	14	1742.60705
Flat	T	97	14	1982.966643
Flat	T	98	14	1321.977762
Flat	T	99	14	2043.056541
Flat	T	100	14	1622.427253
Flat	T	96	15	1562.337355
Flat	T	97	15	1502.247457
Flat	T	98	15	1562.337355
Flat	T	99	15	2343.506033
Flat	T	100	15	1742.60705
Flat	U	101	1	60.08989827
Flat	U	102	1	120.1797965
Flat	U	103	1	0
Flat	U	104	1	180.2696948
Flat	U	105	1	60.08989827
Flat	U	101	2	540.8090845
Flat	U	102	2	300.4494914
Flat	U	103	2	540.8090845
Flat	U	104	2	540.8090845
Flat	U	105	2	480.7191862
Flat	U	101	3	660.988881
Flat	U	102	3	660.988881
Flat	U	103	3	721.0787793
Flat	U	104	3	901.3484741
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Flat	U	101	4	1081.618169
Flat	U	102	4	721.0787793
Flat	U	103	4	1021.528271
Flat	U	104	4	901.3484741
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Flat	U	101	5	1562.337355
Flat	U	102	5	901.3484741
Flat	U	103	5	1982.966643
Flat	U	104	5	1622.427253
Flat	U	105	5	1261.887864
Flat	U	101	6	2043.056541
Flat	U	102	6	1742.60705
Flat	U	103	6	1862.786846
Flat	U	104	6	2043.056541
Flat	U	105	6	1382.06766
Flat	U	101	7	2343.506033
Flat	U	102	7	1982.966643
Flat	U	103	7	1742.60705
Flat	U	104	7	2523.775727
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Flat	U	101	8	2523.775727
Flat	U	102	8	2163.236338
Flat	U	103	8	2043.056541

Flat	U	104	8	2223.326236
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Flat	U	101	10	2283.416134
Flat	U	102	10	2043.056541
Flat	U	103	10	2283.416134
Flat	U	104	10	2523.775727
Flat	U	105	10	2283.416134
Flat	U	101	11	2343.506033
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Flat	U	103	11	1862.786846
Flat	U	104	11	2704.045422
Flat	U	105	11	2043.056541
Flat	U	101	12	2343.506033
Flat	U	102	12	2043.056541
Flat	U	103	12	1982.966643
Flat	U	104	12	2704.045422
Flat	U	105	12	2163.236338
Flat	U	101	13	2283.416134
Flat	U	102	13	1922.876745
Flat	U	103	13	1922.876745
Flat	U	104	13	2704.045422
Flat	U	105	13	2643.955524
Flat	U	101	14	2223.326236
Flat	U	102	14	1862.786846
Flat	U	103	14	1922.876745
Flat	U	104	14	2523.775727
Flat	U	105	14	
Flat	U	101	15	2103.14644
Flat	U	102	15	1862.786846
Flat	U	103	15	1982.966643
Flat	U	104	15	2463.685829
Flat	U	105	15	
Flat	V	106	1	120.1797965
Flat	V	107	1	360.5393896
Flat	V	108	1	120.1797965
Flat	V	109	1	300.4494914
Flat	V	110	1	120.1797965
Flat	V	106	2	420.6292879
Flat	V	107	2	420.6292879
Flat	V	108	2	480.7191862
Flat	V	109	2	360.5393896
Flat	V	110	2	540.8090845
Flat	V	106	3	781.1686775
Flat	V	107	3	540.8090845
Flat	V	108	3	660.988881
Flat	V	109	3	660.988881
Flat	V	110	3	540.8090845
Flat	V	106	4	961.4383724
Flat	V	107	4	1141.708067
Flat	V	108	4	1141.708067

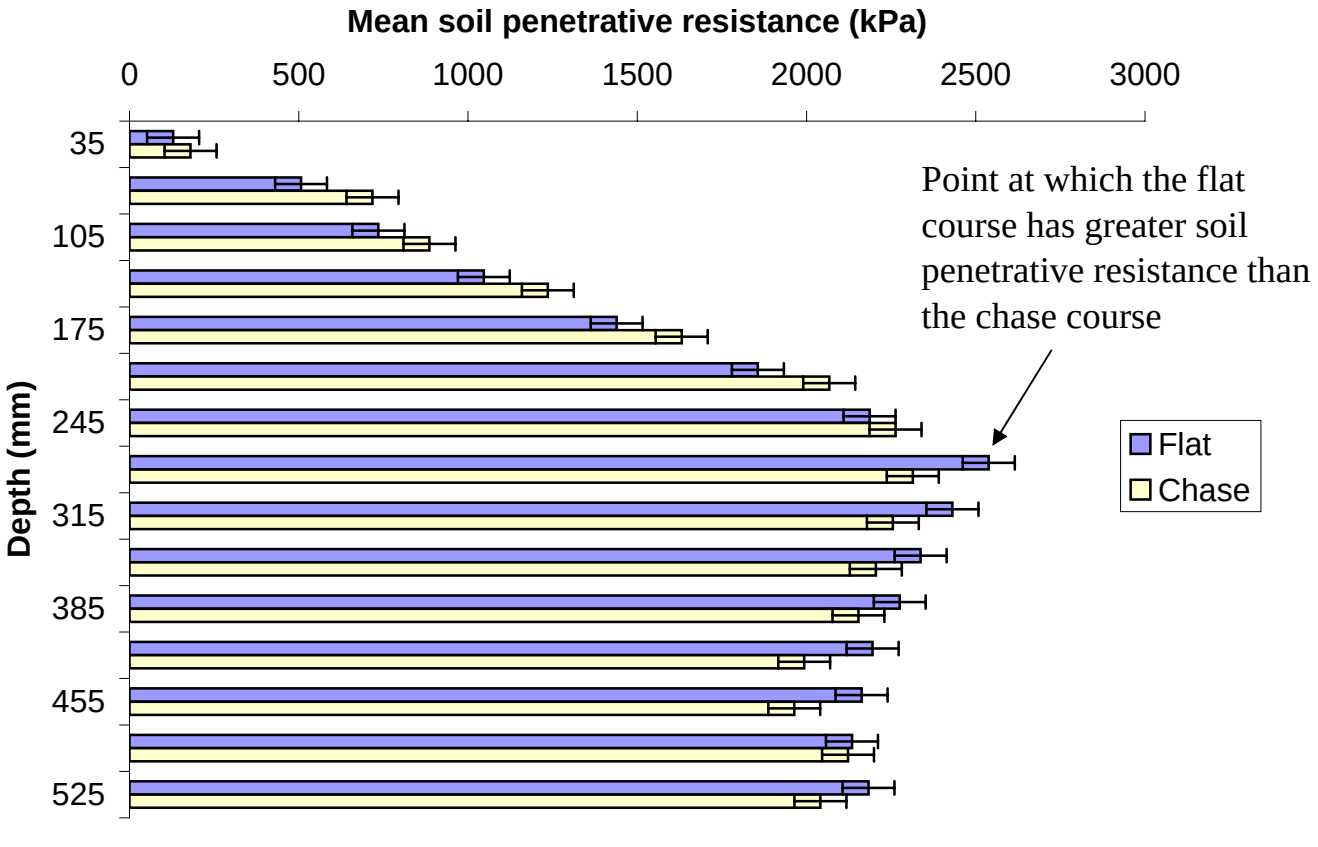
Flat	V	109	4	961.4383724
Flat	V	110	4	961.4383724
Flat	V	106	5	1562.337355
Flat	V	107	5	1382.06766
Flat	V	108	5	1382.06766
Flat	V	109	5	1321.977762
Flat	V	110	5	1922.876745
Flat	V	106	6	1982.966643
Flat	V	107	6	1802.696948
Flat	V	108	6	1982.966643
Flat	V	109	6	1802.696948
Flat	V	110	6	2283.416134
Flat	V	106	7	2283.416134
Flat	V	107	7	2283.416134
Flat	V	108	7	2103.14644
Flat	V	109	7	2463.685829
Flat	V	110	7	2523.775727
Flat	V	106	8	2043.056541
Flat	V	107	8	2824.225219
Flat	V	108	8	2223.326236
Flat	V	109	8	2824.225219
Flat	V	110	8	2403.595931
Flat	V	106	9	1201.797965
Flat	V	107	9	2343.506033
Flat	V	108	9	2643.955524
Flat	V	109	9	2944.405015
Flat	V	110	9	2944.405015
Flat	V	106	10	961.4383724
Flat	V	107	10	2043.056541
Flat	V	108	10	2583.865626
Flat	V	109	10	2523.775727
Flat	V	110	10	2764.135321
Flat	V	106	11	1682.517152
Flat	V	107	11	1982.966643
Flat	V	108	11	2463.685829
Flat	V	109	11	2343.506033
Flat	V	110	11	2463.685829
Flat	V	106	12	1922.876745
Flat	V	107	12	2523.775727
Flat	V	108	12	2403.595931
Flat	V	109	12	2223.326236
Flat	V	110	12	2523.775727
Flat	V	106	13	2583.865626
Flat	V	107	13	2523.775727
Flat	V	108	13	2103.14644
Flat	V	109	13	1922.876745
Flat	V	110	13	2283.416134
Flat	V	106	14	2103.14644
Flat	V	107	14	3244.854507
Flat	V	108	14	2043.056541
Flat	V	109	14	1922.876745
Flat	V	110	14	2043.056541
Flat	V	106	15	1742.60705
Flat	V	107	15	2824.225219
Flat	V	108	15	1982.966643

Flat	V	109	15	1802.696948
Flat	V	110	15	1922.876745

Race typ Flat / Hurdle
Location A to K
Depth 1 to 15

Mean results

Depth (mn	Flat	Chase	LSD (half)	LSD	
35	128.9	180.3	76.675	153.35	76.675
70	506.9	717.8	76.675		
105	735.3	886.1	76.675		
140	1046.7	1235.7	76.675		
175	1438.9	1631.2	76.675		
210	1856.2	2067.1	76.675		
245	2186.2	2262.8	76.675		
280	2538.3	2313.9	76.675		
315	2431	2254.9	76.675		
350	2336.9	2204.7	76.675		
385	2275.3	2153.4	76.675		
420	2195.1	1993.2	76.675		
455	2162.6	1963.8	76.675		
490	2134.2	2122.5	76.675		
525	2183.2	2041	76.675		



Upper soil profile

Race type	Location	Samples	Depth	Measurement
Jump	A	1	1	60.0899
Jump	A	2	1	180.2697
Jump	A	3	1	60.0899
Jump	A	4	1	240.3596
Jump	A	5	1	240.3596
Jump	A	1	2	841.2586
Jump	A	2	2	600.899
Jump	A	3	2	540.8091
Jump	A	4	2	781.1687
Jump	A	5	2	540.8091
Jump	A	1	3	540.8091
Jump	A	2	3	721.0788
Jump	A	3	3	781.1687
Jump	A	4	3	781.1687
Jump	A	5	3	660.9889
Jump	A	1	4	660.9889
Jump	A	2	4	961.4384
Jump	A	3	4	841.2586
Jump	A	4	4	1021.528
Jump	A	5	4	841.2586
Jump	A	1	5	901.3485
Jump	A	2	5	901.3485
Jump	A	3	5	961.4384
Jump	A	4	5	1562.337
Jump	A	5	5	841.2586
Jump	A	1	6	1261.888
Jump	A	2	6	1442.158
Jump	A	3	6	1502.247
Jump	A	4	6	1862.787
Jump	A	5	6	1562.337
Jump	A	1	7	1922.877
Jump	A	2	7	1802.697
Jump	A	3	7	1982.967
Jump	A	4	7	1982.967
Jump	A	5	7	1802.697
Jump	B	6	1	360.5394
Jump	B	7	1	180.2697
Jump	B	8	1	60.0899
Jump	B	9	1	240.3596
Jump	B	10	1	0
Jump	B	6	2	721.0788
Jump	B	7	2	721.0788
Jump	B	8	2	540.8091
Jump	B	9	2	961.4384
Jump	B	10	2	540.8091
Jump	B	6	3	841.2586
Jump	B	7	3	841.2586
Jump	B	8	3	540.8091
Jump	B	9	3	1021.528
Jump	B	10	3	721.0788
Jump	B	6	4	1201.798
Jump	B	7	4	901.3485
Jump	B	8	4	1021.528

Jump	B	9	4	1141.708
Jump	B	10	4	841.2586
Jump	B	6	5	1742.607
Jump	B	7	5	1442.158
Jump	B	8	5	1201.798
Jump	B	9	5	1502.247
Jump	B	10	5	1261.888
Jump	B	6	6	1982.967
Jump	B	7	6	1562.337
Jump	B	8	6	2163.236
Jump	B	9	6	1622.427
Jump	B	10	6	1622.427
Jump	B	6	7	1982.967
Jump	B	7	7	1922.877
Jump	B	8	7	2163.236
Jump	B	9	7	1982.967
Jump	B	10	7	1862.787
Jump	C	11	1	180.2697
Jump	C	12	1	180.2697
Jump	C	13	1	120.1798
Jump	C	14	1	180.2697
Jump	C	15	1	60.0899
Jump	C	11	2	660.9889
Jump	C	12	2	420.6293
Jump	C	13	2	1021.528
Jump	C	14	2	721.0788
Jump	C	15	2	781.1687
Jump	C	11	3	1321.978
Jump	C	12	3	781.1687
Jump	C	13	3	1382.068
Jump	C	14	3	1201.798
Jump	C	15	3	1442.158
Jump	C	11	4	1802.697
Jump	C	12	4	1382.068
Jump	C	13	4	2043.057
Jump	C	14	4	1862.787
Jump	C	15	4	1742.607
Jump	C	11	5	1922.877
Jump	C	12	5	2283.416
Jump	C	13	5	2283.416
Jump	C	14	5	1982.967
Jump	C	15	5	1802.697
Jump	C	11	6	2643.956
Jump	C	12	6	3244.855
Jump	C	13	6	4206.293
Jump	C	14	6	2163.236
Jump	C	15	6	2043.057
Jump	C	11	7	3485.214
Jump	C	12	7	3365.034
Jump	C	13	7	4086.113
Jump	C	14	7	2163.236
Jump	C	15	7	2583.866
Jump	D	16	1	60.0899
Jump	D	17	1	60.0899
Jump	D	18	1	240.3596

Jump	D	19	1	0
Jump	D	20	1	240.3596
Jump	D	16	2	540.8091
Jump	D	17	2	660.9889
Jump	D	18	2	721.0788
Jump	D	19	2	841.2586
Jump	D	20	2	721.0788
Jump	D	16	3	1021.528
Jump	D	17	3	1261.888
Jump	D	18	3	961.4384
Jump	D	19	3	1141.708
Jump	D	20	3	841.2586
Jump	D	16	4	1382.068
Jump	D	17	4	1622.427
Jump	D	18	4	1201.798
Jump	D	19	4	1081.618
Jump	D	20	4	901.3485
Jump	D	16	5	2103.146
Jump	D	17	5	2583.866
Jump	D	18	5	1141.708
Jump	D	19	5	1321.978
Jump	D	20	5	1081.618
Jump	D	16	6	3485.214
Jump	D	17	6	2583.866
Jump	D	18	6	1802.697
Jump	D	19	6	1622.427
Jump	D	20	6	1862.787
Jump	D	16	7	3785.664
Jump	D	17	7	1802.697
Jump	D	18	7	2223.326
Jump	D	19	7	2043.057
Jump	D	20	7	1982.967
Jump	E	21	1	180.2697
Jump	E	22	1	420.6293
Jump	E	23	1	60.0899
Jump	E	24	1	300.4495
Jump	E	25	1	60.0899
Jump	E	21	2	540.8091
Jump	E	22	2	540.8091
Jump	E	23	2	360.5394
Jump	E	24	2	660.9889
Jump	E	25	2	781.1687
Jump	E	21	3	420.6293
Jump	E	22	3	781.1687
Jump	E	23	3	721.0788
Jump	E	24	3	781.1687
Jump	E	25	3	1201.798
Jump	E	21	4	901.3485
Jump	E	22	4	1081.618
Jump	E	23	4	1081.618
Jump	E	24	4	1141.708
Jump	E	25	4	1382.068
Jump	E	21	5	1321.978
Jump	E	22	5	1141.708
Jump	E	23	5	1502.247

Jump	E	24	5	1742.607
Jump	E	25	5	1502.247
Jump	E	21	6	1682.517
Jump	E	22	6	1922.877
Jump	E	23	6	1802.697
Jump	E	24	6	1982.967
Jump	E	25	6	4206.293
Jump	E	21	7	2463.686
Jump	E	22	7	2583.866
Jump	E	23	7	2103.146
Jump	E	24	7	2283.416
Jump	E	25	7	2944.405
Jump	F	26	1	480.7192
Jump	F	27	1	180.2697
Jump	F	28	1	0
Jump	F	29	1	721.0788
Jump	F	30	1	240.3596
Jump	F	26	2	540.8091
Jump	F	27	2	961.4384
Jump	F	28	2	721.0788
Jump	F	29	2	1021.528
Jump	F	30	2	961.4384
Jump	F	26	3	901.3485
Jump	F	27	3	1081.618
Jump	F	28	3	781.1687
Jump	F	29	3	901.3485
Jump	F	30	3	1442.158
Jump	F	26	4	1201.798
Jump	F	27	4	1622.427
Jump	F	28	4	1261.888
Jump	F	29	4	1141.708
Jump	F	30	4	2523.776
Jump	F	26	5	1321.978
Jump	F	27	5	1862.787
Jump	F	28	5	2103.146
Jump	F	29	5	2283.416
Jump	F	30	5	2944.405
Jump	F	26	6	2043.057
Jump	F	27	6	2043.057
Jump	F	28	6	2223.326
Jump	F	29	6	2764.135
Jump	F	30	6	2824.225
Jump	F	26	7	1982.967
Jump	F	27	7	2163.236
Jump	F	28	7	2583.866
Jump	F	29	7	2764.135
Jump	F	30	7	2463.686
Jump	G	31	1	240.3596
Jump	G	32	1	180.2697
Jump	G	33	1	180.2697
Jump	G	34	1	120.1798
Jump	G	35	1	300.4495
Jump	G	31	2	721.0788
Jump	G	32	2	841.2586
Jump	G	33	2	540.8091

Jump	G	34	2	660.9889
Jump	G	35	2	961.4384
Jump	G	31	3	781.1687
Jump	G	32	3	841.2586
Jump	G	33	3	540.8091
Jump	G	34	3	660.9889
Jump	G	35	3	961.4384
Jump	G	31	4	1201.798
Jump	G	32	4	1261.888
Jump	G	33	4	1081.618
Jump	G	34	4	1502.247
Jump	G	35	4	2043.057
Jump	G	31	5	1442.158
Jump	G	32	5	1682.517
Jump	G	33	5	1562.337
Jump	G	34	5	1922.877
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Jump	G	32	6	2343.506
Jump	G	33	6	1922.877
Jump	G	34	6	2283.416
Jump	G	35	6	2043.057
Jump	G	31	7	1982.967
Jump	G	32	7	2343.506
Jump	G	33	7	1922.877
Jump	G	34	7	2103.146
Jump	G	35	7	2103.146
Jump	H	36	1	0
Jump	H	37	1	60.0899
Jump	H	38	1	300.4495
Jump	H	39	1	180.2697
Jump	H	40	1	120.1798
Jump	H	36	2	420.6293
Jump	H	37	2	600.899
Jump	H	38	2	660.9889
Jump	H	39	2	420.6293
Jump	H	40	2	540.8091
Jump	H	36	3	480.7192
Jump	H	37	3	600.899
Jump	H	38	3	721.0788
Jump	H	39	3	721.0788
Jump	H	40	3	480.7192
Jump	H	36	4	660.9889
Jump	H	37	4	841.2586
Jump	H	38	4	1021.528
Jump	H	39	4	1201.798
Jump	H	40	4	781.1687
Jump	H	36	5	901.3485
Jump	H	37	5	901.3485
Jump	H	38	5	1442.158
Jump	H	39	5	1321.978
Jump	H	40	5	1201.798
Jump	H	36	6	1802.697
Jump	H	37	6	1442.158
Jump	H	38	6	1742.607

Jump	H	39	6	1502.247
Jump	H	40	6	1261.888
Jump	H	36	7	2163.236
Jump	H	37	7	1442.158
Jump	H	38	7	1682.517
Jump	H	39	7	1682.517
Jump	H	40	7	1562.337
Jump	I	41	1	180.2697
Jump	I	42	1	300.4495
Jump	I	43	1	540.8091
Jump	I	44	1	60.0899
Jump	I	45	1	480.7192
Jump	I	41	2	540.8091
Jump	I	42	2	600.899
Jump	I	43	2	660.9889
Jump	I	44	2	841.2586
Jump	I	45	2	901.3485
Jump	I	41	3	1021.528
Jump	I	42	3	841.2586
Jump	I	43	3	1141.708
Jump	I	44	3	721.0788
Jump	I	45	3	901.3485
Jump	I	41	4	961.4384
Jump	I	42	4	1081.618
Jump	I	43	4	1321.978
Jump	I	44	4	1081.618
Jump	I	45	4	1382.068
Jump	I	41	5	2463.686
Jump	I	42	5	2764.135
Jump	I	43	5	1502.247
Jump	I	44	5	1862.787
Jump	I	45	5	1382.068
Jump	I	41	6	2343.506
Jump	I	42	6	2163.236
Jump	I	43	6	1682.517
Jump	I	44	6	1982.967
Jump	I	45	6	1562.337
Jump	I	41	7	2583.866
Jump	I	42	7	1862.787
Jump	I	43	7	1802.697
Jump	I	44	7	1862.787
Jump	I	45	7	1802.697
Jump	J	46	1	0
Jump	J	47	1	0
Jump	J	48	1	300.4495
Jump	J	49	1	240.3596
Jump	J	50	1	120.1798
Jump	J	46	2	660.9889
Jump	J	47	2	420.6293
Jump	J	48	2	1141.708
Jump	J	49	2	1201.798
Jump	J	50	2	660.9889
Jump	J	46	3	721.0788
Jump	J	47	3	420.6293
Jump	J	48	3	1261.888

Jump	J	49	3	1442.158
Jump	J	50	3	600.899
Jump	J	46	4	901.3485
Jump	J	47	4	660.9889
Jump	J	48	4	1682.517
Jump	J	49	4	1622.427
Jump	J	50	4	1321.978
Jump	J	46	5	961.4384
Jump	J	47	5	961.4384
Jump	J	48	5	2403.596
Jump	J	49	5	2283.416
Jump	J	50	5	1682.517
Jump	J	46	6	1502.247
Jump	J	47	6	1321.978
Jump	J	48	6	2884.315
Jump	J	49	6	2043.057
Jump	J	50	6	1261.888
Jump	J	46	7	1562.337
Jump	J	47	7	1382.068
Jump	J	48	7	3365.034
Jump	J	49	7	
Jump	J	50	7	1682.517
Jump	K	51	1	120.1798
Jump	K	52	1	120.1798
Jump	K	53	1	60.0899
Jump	K	54	1	60.0899
Jump	K	55	1	60.0899
Jump	K	51	2	961.4384
Jump	K	52	2	480.7192
Jump	K	53	2	1021.528
Jump	K	54	2	781.1687
Jump	K	55	2	1261.888
Jump	K	51	3	1021.528
Jump	K	52	3	721.0788
Jump	K	53	3	1021.528
Jump	K	54	3	961.4384
Jump	K	55	3	1321.978
Jump	K	51	4	1321.978
Jump	K	52	4	1081.618
Jump	K	53	4	1502.247
Jump	K	54	4	1201.798
Jump	K	55	4	1442.158
Jump	K	51	5	1442.158
Jump	K	52	5	1502.247
Jump	K	53	5	1682.517
Jump	K	54	5	2043.057
Jump	K	55	5	1682.517
Jump	K	51	6	1802.697
Jump	K	52	6	2043.057
Jump	K	53	6	2343.506
Jump	K	54	6	2764.135
Jump	K	55	6	2043.057
Jump	K	51	7	2944.405
Jump	K	52	7	2704.045
Jump	K	53	7	2824.225

Jump	K	54	7	3064.585
Jump	K	55	7	2283.416
Flat	L	56	1	180.2697
Flat	L	57	1	60.0899
Flat	L	58	1	60.0899
Flat	L	59	1	60.0899
Flat	L	60	1	0
Flat	L	56	2	1141.708
Flat	L	57	2	721.0788
Flat	L	58	2	841.2586
Flat	L	59	2	841.2586
Flat	L	60	2	120.1798
Flat	L	56	3	1141.708
Flat	L	57	3	1141.708
Flat	L	58	3	1321.978
Flat	L	59	3	1201.798
Flat	L	60	3	961.4384
Flat	L	56	4	1562.337
Flat	L	57	4	1382.068
Flat	L	58	4	2223.326
Flat	L	59	4	1682.517
Flat	L	60	4	1261.888
Flat	L	56	5	1922.877
Flat	L	57	5	2283.416
Flat	L	58	5	2283.416
Flat	L	59	5	1862.787
Flat	L	60	5	2103.146
Flat	L	56	6	2583.866
Flat	L	57	6	2403.596
Flat	L	58	6	2523.776
Flat	L	59	6	2223.326
Flat	L	60	6	1982.967
Flat	L	56	7	2583.866
Flat	L	57	7	2403.596
Flat	L	58	7	2103.146
Flat	L	59	7	2944.405
Flat	L	60	7	2163.236
Flat	M	61	1	0
Flat	M	62	1	0
Flat	M	63	1	0
Flat	M	64	1	0
Flat	M	65	1	0
Flat	M	61	2	420.6293
Flat	M	62	2	420.6293
Flat	M	63	2	660.9889
Flat	M	64	2	360.5394
Flat	M	65	2	420.6293
Flat	M	61	3	781.1687
Flat	M	62	3	1141.708
Flat	M	63	3	961.4384
Flat	M	64	3	360.5394
Flat	M	65	3	901.3485
Flat	M	61	4	901.3485
Flat	M	62	4	1141.708
Flat	M	63	4	1201.798

Flat	M	64	4	600.899
Flat	M	65	4	1021.528
Flat	M	61	5	1442.158
Flat	M	62	5	1442.158
Flat	M	63	5	1682.517
Flat	M	64	5	1382.068
Flat	M	65	5	1802.697
Flat	M	61	6	1742.607
Flat	M	62	6	1682.517
Flat	M	63	6	1862.787
Flat	M	64	6	2343.506
Flat	M	65	6	1802.697
Flat	M	61	7	2163.236
Flat	M	62	7	2223.326
Flat	M	63	7	2043.057
Flat	M	64	7	2523.776
Flat	M	65	7	1802.697
Flat	N	66	1	60.0899
Flat	N	67	1	120.1798
Flat	N	68	1	180.2697
Flat	N	69	1	0
Flat	N	70	1	0
Flat	N	66	2	420.6293
Flat	N	67	2	360.5394
Flat	N	68	2	540.8091
Flat	N	69	2	420.6293
Flat	N	70	2	480.7192
Flat	N	66	3	540.8091
Flat	N	67	3	600.899
Flat	N	68	3	660.9889
Flat	N	69	3	660.9889
Flat	N	70	3	600.899
Flat	N	66	4	660.9889
Flat	N	67	4	1141.708
Flat	N	68	4	841.2586
Flat	N	69	4	1141.708
Flat	N	70	4	961.4384
Flat	N	66	5	1081.618
Flat	N	67	5	1922.877
Flat	N	68	5	1021.528
Flat	N	69	5	2163.236
Flat	N	70	5	1261.888
Flat	N	66	6	1742.607
Flat	N	67	6	3785.664
Flat	N	68	6	2043.057
Flat	N	69	6	3545.304
Flat	N	70	6	2223.326
Flat	N	66	7	3545.304
Flat	N	67	7	4326.473
Flat	N	68	7	4266.383
Flat	N	69	7	4266.383
Flat	N	70	7	2463.686
Flat	O	71	1	60.0899
Flat	O	72	1	120.1798
Flat	O	73	1	60.0899

Flat	O	74	1	0
Flat	O	75	1	120.1798
Flat	O	71	2	300.4495
Flat	O	72	2	420.6293
Flat	O	73	2	360.5394
Flat	O	74	2	360.5394
Flat	O	75	2	240.3596
Flat	O	71	3	360.5394
Flat	O	72	3	721.0788
Flat	O	73	3	841.2586
Flat	O	74	3	600.899
Flat	O	75	3	480.7192
Flat	O	71	4	540.8091
Flat	O	72	4	841.2586
Flat	O	73	4	1141.708
Flat	O	74	4	841.2586
Flat	O	75	4	660.9889
Flat	O	71	5	841.2586
Flat	O	72	5	961.4384
Flat	O	73	5	1321.978
Flat	O	74	5	1321.978
Flat	O	75	5	961.4384
Flat	O	71	6	
Flat	O	72	6	1321.978
Flat	O	73	6	1442.158
Flat	O	74	6	1562.337
Flat	O	75	6	1261.888
Flat	O	71	7	
Flat	O	72	7	1321.978
Flat	O	73	7	1261.888
Flat	O	74	7	1862.787
Flat	O	75	7	1382.068
Flat	P	76	1	0
Flat	P	77	1	240.3596
Flat	P	78	1	0
Flat	P	79	1	0
Flat	P	80	1	120.1798
Flat	P	76	2	660.9889
Flat	P	77	2	480.7192
Flat	P	78	2	540.8091
Flat	P	79	2	360.5394
Flat	P	80	2	240.3596
Flat	P	76	3	480.7192
Flat	P	77	3	1021.528
Flat	P	78	3	600.899
Flat	P	79	3	420.6293
Flat	P	80	3	480.7192
Flat	P	76	4	841.2586
Flat	P	77	4	1442.158
Flat	P	78	4	721.0788
Flat	P	79	4	660.9889
Flat	P	80	4	600.899
Flat	P	76	5	1321.978
Flat	P	77	5	1442.158
Flat	P	78	5	1081.618

Flat	P	79	5	781.1687
Flat	P	80	5	781.1687
Flat	P	76	6	1622.427
Flat	P	77	6	1802.697
Flat	P	78	6	1622.427
Flat	P	79	6	841.2586
Flat	P	80	6	961.4384
Flat	P	76	7	1982.967
Flat	P	77	7	1982.967
Flat	P	78	7	1622.427
Flat	P	79	7	1922.877
Flat	P	80	7	961.4384
Flat	Q	81	1	120.1798
Flat	Q	82	1	360.5394
Flat	Q	83	1	480.7192
Flat	Q	84	1	120.1798
Flat	Q	85	1	120.1798
Flat	Q	81	2	420.6293
Flat	Q	82	2	660.9889
Flat	Q	83	2	600.899
Flat	Q	84	2	360.5394
Flat	Q	85	2	480.7192
Flat	Q	81	3	540.8091
Flat	Q	82	3	721.0788
Flat	Q	83	3	660.9889
Flat	Q	84	3	540.8091
Flat	Q	85	3	540.8091
Flat	Q	81	4	961.4384
Flat	Q	82	4	1081.618
Flat	Q	83	4	1442.158
Flat	Q	84	4	841.2586
Flat	Q	85	4	841.2586
Flat	Q	81	5	1261.888
Flat	Q	82	5	1502.247
Flat	Q	83	5	1742.607
Flat	Q	84	5	961.4384
Flat	Q	85	5	1201.798
Flat	Q	81	6	1261.888
Flat	Q	82	6	2103.146
Flat	Q	83	6	2463.686
Flat	Q	84	6	1081.618
Flat	Q	85	6	2643.956
Flat	Q	81	7	1682.517
Flat	Q	82	7	2343.506
Flat	Q	83	7	2764.135
Flat	Q	84	7	1081.618
Flat	Q	85	7	2523.776
Flat	R	86	1	240.3596
Flat	R	87	1	0
Flat	R	88	1	180.2697
Flat	R	89	1	360.5394
Flat	R	90	1	360.5394
Flat	R	86	2	721.0788
Flat	R	87	2	420.6293
Flat	R	88	2	781.1687

Flat	R	89	2	1141.708
Flat	R	90	2	300.4495
Flat	R	86	3	1261.888
Flat	R	87	3	540.8091
Flat	R	88	3	1141.708
Flat	R	89	3	1081.618
Flat	R	90	3	480.7192
Flat	R	86	4	1862.787
Flat	R	87	4	901.3485
Flat	R	88	4	1502.247
Flat	R	89	4	1442.158
Flat	R	90	4	781.1687
Flat	R	86	5	2463.686
Flat	R	87	5	1382.068
Flat	R	88	5	1922.877
Flat	R	89	5	2103.146
Flat	R	90	5	1081.618
Flat	R	86	6	2523.776
Flat	R	87	6	1682.517
Flat	R	88	6	2163.236
Flat	R	89	6	2463.686
Flat	R	90	6	1321.978
Flat	R	86	7	2463.686
Flat	R	87	7	1982.967
Flat	R	88	7	2523.776
Flat	R	89	7	3365.034
Flat	R	90	7	1862.787
Flat	S	91	1	360.5394
Flat	S	92	1	0
Flat	S	93	1	0
Flat	S	94	1	0
Flat	S	95	1	0
Flat	S	91	2	240.3596
Flat	S	92	2	540.8091
Flat	S	93	2	300.4495
Flat	S	94	2	660.9889
Flat	S	95	2	540.8091
Flat	S	91	3	480.7192
Flat	S	92	3	721.0788
Flat	S	93	3	721.0788
Flat	S	94	3	1021.528
Flat	S	95	3	961.4384
Flat	S	91	4	660.9889
Flat	S	92	4	1201.798
Flat	S	93	4	781.1687
Flat	S	94	4	1321.978
Flat	S	95	4	1321.978
Flat	S	91	5	781.1687
Flat	S	92	5	1562.337
Flat	S	93	5	901.3485
Flat	S	94	5	1502.247
Flat	S	95	5	1442.158
Flat	S	91	6	1021.528
Flat	S	92	6	1562.337
Flat	S	93	6	1141.708

Flat	S	94	6	1442.158
Flat	S	95	6	1442.158
Flat	S	91	7	1021.528
Flat	S	92	7	1562.337
Flat	S	93	7	1261.888
Flat	S	94	7	1622.427
Flat	S	95	7	1682.517
Flat	T	96	1	540.8091
Flat	T	97	1	120.1798
Flat	T	98	1	240.3596
Flat	T	99	1	540.8091
Flat	T	100	1	60.0899
Flat	T	96	2	660.9889
Flat	T	97	2	540.8091
Flat	T	98	2	480.7192
Flat	T	99	2	841.2586
Flat	T	100	2	420.6293
Flat	T	96	3	660.9889
Flat	T	97	3	480.7192
Flat	T	98	3	781.1687
Flat	T	99	3	901.3485
Flat	T	100	3	540.8091
Flat	T	96	4	1081.618
Flat	T	97	4	781.1687
Flat	T	98	4	1081.618
Flat	T	99	4	781.1687
Flat	T	100	4	1081.618
Flat	T	96	5	1442.158
Flat	T	97	5	1021.528
Flat	T	98	5	1021.528
Flat	T	99	5	1442.158
Flat	T	100	5	1021.528
Flat	T	96	6	2043.057
Flat	T	97	6	1562.337
Flat	T	98	6	1442.158
Flat	T	99	6	2163.236
Flat	T	100	6	1502.247
Flat	T	96	7	2463.686
Flat	T	97	7	1742.607
Flat	T	98	7	1802.697
Flat	T	99	7	2704.045
Flat	T	100	7	2283.416
Flat	U	101	1	60.0899
Flat	U	102	1	120.1798
Flat	U	103	1	0
Flat	U	104	1	180.2697
Flat	U	105	1	60.0899
Flat	U	101	2	540.8091
Flat	U	102	2	300.4495
Flat	U	103	2	540.8091
Flat	U	104	2	540.8091
Flat	U	105	2	480.7192
Flat	U	101	3	660.9889
Flat	U	102	3	660.9889
Flat	U	103	3	721.0788

Flat	U	104	3	901.3485
Flat	U	105	3	540.8091
Flat	U	101	4	1081.618
Flat	U	102	4	721.0788
Flat	U	103	4	1021.528
Flat	U	104	4	901.3485
Flat	U	105	4	901.3485
Flat	U	101	5	1562.337
Flat	U	102	5	901.3485
Flat	U	103	5	1982.967
Flat	U	104	5	1622.427
Flat	U	105	5	1261.888
Flat	U	101	6	2043.057
Flat	U	102	6	1742.607
Flat	U	103	6	1862.787
Flat	U	104	6	2043.057
Flat	U	105	6	1382.068
Flat	U	101	7	2343.506
Flat	U	102	7	1982.967
Flat	U	103	7	1742.607
Flat	U	104	7	2523.776
Flat	U	105	7	1862.787
Flat	V	106	1	120.1798
Flat	V	107	1	360.5394
Flat	V	108	1	120.1798
Flat	V	109	1	300.4495
Flat	V	110	1	120.1798
Flat	V	106	2	420.6293
Flat	V	107	2	420.6293
Flat	V	108	2	480.7192
Flat	V	109	2	360.5394
Flat	V	110	2	540.8091
Flat	V	106	3	781.1687
Flat	V	107	3	540.8091
Flat	V	108	3	660.9889
Flat	V	109	3	660.9889
Flat	V	110	3	540.8091
Flat	V	106	4	961.4384
Flat	V	107	4	1141.708
Flat	V	108	4	1141.708
Flat	V	109	4	961.4384
Flat	V	110	4	961.4384
Flat	V	106	5	1562.337
Flat	V	107	5	1382.068
Flat	V	108	5	1382.068
Flat	V	109	5	1321.978
Flat	V	110	5	1922.877
Flat	V	106	6	1982.967
Flat	V	107	6	1802.697
Flat	V	108	6	1982.967
Flat	V	109	6	1802.697
Flat	V	110	6	2283.416
Flat	V	106	7	2283.416
Flat	V	107	7	2283.416
Flat	V	108	7	2103.146

Flat	V	109	7	2463.686
Flat	V	110	7	2523.776

lower soil profile

Race type	Location	Samples	Depth	Measurement
Jump	A	1	8	2283.416
Jump	A	2	8	2223.326
Jump	A	3	8	1982.967
Jump	A	4	8	2103.146
Jump	A	5	8	2103.146
Jump	A	1	9	2403.596
Jump	A	2	9	2523.776
Jump	A	3	9	1982.967
Jump	A	4	9	2223.326
Jump	A	5	9	2103.146
Jump	A	1	10	2463.686
Jump	A	2	10	2764.135
Jump	A	3	10	2403.596
Jump	A	4	10	2343.506
Jump	A	5	10	2043.057
Jump	A	1	11	2583.866
Jump	A	2	11	2824.225
Jump	A	3	11	2283.416
Jump	A	4	11	2223.326
Jump	A	5	11	2163.236
Jump	A	1	12	2523.776
Jump	A	2	12	2884.315
Jump	A	3	12	2463.686
Jump	A	4	12	2223.326
Jump	A	5	12	2103.146
Jump	A	1	13	2283.416
Jump	A	2	13	2824.225
Jump	A	3	13	2403.596
Jump	A	4	13	2283.416
Jump	A	5	13	2043.057
Jump	A	1	14	2704.045
Jump	A	2	14	2704.045
Jump	A	3	14	2643.956
Jump	A	4	14	2944.405
Jump	A	5	14	1982.967
Jump	A	1	15	
Jump	A	2	15	3124.675
Jump	A	3	15	3064.585
Jump	A	4	15	3425.124
Jump	A	5	15	2043.057
Jump	B	6	8	1982.967
Jump	B	7	8	
Jump	B	8	8	2283.416
Jump	B	9	8	2764.135
Jump	B	10	8	2463.686
Jump	B	6	9	3124.675
Jump	B	7	9	
Jump	B	8	9	2343.506
Jump	B	9	9	2944.405
Jump	B	10	9	2283.416
Jump	B	6	10	1622.427
Jump	B	7	10	
Jump	B	8	10	2343.506

Jump	B	9	10	2583.866
Jump	B	10	10	1922.877
Jump	B	6	11	1261.888
Jump	B	7	11	
Jump	B	8	11	2223.326
Jump	B	9	11	2463.686
Jump	B	10	11	1622.427
Jump	B	6	12	1442.158
Jump	B	7	12	
Jump	B	8	12	1562.337
Jump	B	9	12	
Jump	B	10	12	1261.888
Jump	B	6	13	1562.337
Jump	B	7	13	
Jump	B	8	13	1862.787
Jump	B	9	13	
Jump	B	10	13	1502.247
Jump	B	6	14	1382.068
Jump	B	7	14	
Jump	B	8	14	1802.697
Jump	B	9	14	
Jump	B	10	14	1922.877
Jump	B	6	15	
Jump	B	7	15	
Jump	B	8	15	1502.247
Jump	B	9	15	
Jump	B	10	15	1682.517
Jump	C	11	8	3545.304
Jump	C	12	8	3124.675
Jump	C	13	8	4266.383
Jump	C	14	8	2163.236
Jump	C	15	8	2583.866
Jump	C	11	9	3004.495
Jump	C	12	9	3124.675
Jump	C	13	9	4266.383
Jump	C	14	9	2463.686
Jump	C	15	9	2583.866
Jump	C	11	10	3665.484
Jump	C	12	10	3304.944
Jump	C	13	10	4146.203
Jump	C	14	10	2283.416
Jump	C	15	10	3545.304
Jump	C	11	11	2463.686
Jump	C	12	11	
Jump	C	13	11	3485.214
Jump	C	14	11	3785.664
Jump	C	15	11	3184.765
Jump	C	11	12	1682.517
Jump	C	12	12	
Jump	C	13	12	3485.214
Jump	C	14	12	3725.574
Jump	C	15	12	1862.787
Jump	C	11	13	1382.068
Jump	C	12	13	
Jump	C	13	13	3485.214

Jump	C	14	13	3605.394
Jump	C	15	13	1562.337
Jump	C	11	14	1502.247
Jump	C	12	14	
Jump	C	13	14	3124.675
Jump	C	14	14	3425.124
Jump	C	15	14	1622.427
Jump	C	11	15	1622.427
Jump	C	12	15	
Jump	C	13	15	2824.225
Jump	C	14	15	2824.225
Jump	C	15	15	1502.247
Jump	D	16	8	3965.933
Jump	D	17	8	1321.978
Jump	D	18	8	2163.236
Jump	D	19	8	2043.057
Jump	D	20	8	1982.967
Jump	D	16	9	2403.596
Jump	D	17	9	1922.877
Jump	D	18	9	1982.967
Jump	D	19	9	1922.877
Jump	D	20	9	1982.967
Jump	D	16	10	1862.787
Jump	D	17	10	1922.877
Jump	D	18	10	1982.967
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Jump	D	20	10	1982.967
Jump	D	16	11	1862.787
Jump	D	17	11	1622.427
Jump	D	18	11	1862.787
Jump	D	19	11	1502.247
Jump	D	20	11	1982.967
Jump	D	16	12	1622.427
Jump	D	17	12	1862.787
Jump	D	18	12	1742.607
Jump	D	19	12	1442.158
Jump	D	20	12	2043.057
Jump	D	16	13	2163.236
Jump	D	17	13	1622.427
Jump	D	18	13	1622.427
Jump	D	19	13	1382.068
Jump	D	20	13	1862.787
Jump	D	16	14	
Jump	D	17	14	1982.967
Jump	D	18	14	1442.158
Jump	D	19	14	1502.247
Jump	D	20	14	1922.877
Jump	D	16	15	
Jump	D	17	15	3665.484
Jump	D	18	15	1502.247
Jump	D	19	15	1682.517
Jump	D	20	15	1862.787
Jump	E	21	8	4146.203
Jump	E	22	8	2944.405
Jump	E	23	8	2583.866

Jump	E	24	8	2223.326
Jump	E	25	8	2523.776
Jump	E	21	9	2643.956
Jump	E	22	9	2643.956
Jump	E	23	9	2523.776
Jump	E	24	9	2103.146
Jump	E	25	9	2403.596
Jump	E	21	10	2043.057
Jump	E	22	10	2103.146
Jump	E	23	10	2283.416
Jump	E	24	10	2223.326
Jump	E	25	10	2163.236
Jump	E	21	11	1862.787
Jump	E	22	11	1862.787
Jump	E	23	11	2043.057
Jump	E	24	11	1862.787
Jump	E	25	11	1982.967
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Jump	E	22	12	1862.787
Jump	E	23	12	1862.787
Jump	E	24	12	2223.326
Jump	E	25	12	1862.787
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Jump	E	23	13	1742.607
Jump	E	24	13	1922.877
Jump	E	25	13	1562.337
Jump	E	21	14	1622.427
Jump	E	22	14	1622.427
Jump	E	23	14	1321.978
Jump	E	24	14	1922.877
Jump	E	25	14	1622.427
Jump	E	21	15	1682.517
Jump	E	22	15	1382.068
Jump	E	23	15	1382.068
Jump	E	24	15	1922.877
Jump	E	25	15	1682.517
Jump	F	26	8	1682.517
Jump	F	27	8	2223.326
Jump	F	28	8	2283.416
Jump	F	29	8	2343.506
Jump	F	30	8	1922.877
Jump	F	26	9	1622.427
Jump	F	27	9	2163.236
Jump	F	28	9	1862.787
Jump	F	29	9	2223.326
Jump	F	30	9	1622.427
Jump	F	26	10	1862.787
Jump	F	27	10	1922.877
Jump	F	28	10	1622.427
Jump	F	29	10	2043.057
Jump	F	30	10	1802.697
Jump	F	26	11	2223.326
Jump	F	27	11	1742.607
Jump	F	28	11	1622.427

Jump	F	29	11	2343.506
Jump	F	30	11	1562.337
Jump	F	26	12	1622.427
Jump	F	27	12	1802.697
Jump	F	28	12	1742.607
Jump	F	29	12	2704.045
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Jump	F	27	14	2163.236
Jump	F	28	14	1982.967
Jump	F	29	14	2343.506
Jump	F	30	14	1922.877
Jump	F	26	15	1562.337
Jump	F	27	15	2463.686
Jump	F	28	15	1802.697
Jump	F	29	15	1982.967
Jump	F	30	15	1982.967
Jump	G	31	8	1982.967
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Jump	G	33	8	1922.877
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Jump	G	35	8	1922.877
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Jump	G	31	10	2043.057
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Jump	G	34	11	1982.967
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Jump	G	32	13	
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Jump	G	35	13	1442.158
Jump	G	31	14	3665.484
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Jump	G	33	14	1682.517

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Jump	G	31	15	
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Jump	H	36	9	1562.337
Jump	H	37	9	1261.888
Jump	H	38	9	1742.607
Jump	H	39	9	1862.787
Jump	H	40	9	1682.517
Jump	H	36	10	2163.236
Jump	H	37	10	1141.708
Jump	H	38	10	1562.337
Jump	H	39	10	1742.607
Jump	H	40	10	1622.427
Jump	H	36	11	2043.057
Jump	H	37	11	1021.528
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Jump	H	40	13	1321.978
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Jump	H	37	14	1261.888
Jump	H	38	14	1321.978
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Jump	I	42	10	1922.877
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Jump	I	41	11	1321.978
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Jump	I	43	11	1442.158
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Jump	I	41	12	1382.068
Jump	I	42	12	1802.697
Jump	I	43	12	2043.057
Jump	I	44	12	
Jump	I	45	12	1682.517
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Jump	I	43	13	
Jump	I	44	13	
Jump	I	45	13	1682.517
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Jump	J	46	10	2343.506
Jump	J	47	10	1862.787
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Jump	J	50	10	2163.236
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Jump	J	48	13	
Jump	J	49	13	
Jump	J	50	13	1742.607
Jump	J	46	14	1922.877
Jump	J	47	14	1261.888
Jump	J	48	14	
Jump	J	49	14	
Jump	J	50	14	1502.247
Jump	J	46	15	1682.517
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Flat	L	59	9	2704.045
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Flat	L	58	10	2283.416
Flat	L	59	10	2403.596
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Flat	L	60	11	2103.146
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Flat	L	59	12	2523.776
Flat	L	60	12	1922.877
Flat	L	56	13	2704.045
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Flat	N	68	15	
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Flat	O	72	11	1802.697
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Flat	O	71	12	
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Flat	O	75	12	1321.978
Flat	O	71	13	
Flat	O	72	13	1562.337
Flat	O	73	13	1321.978
Flat	O	74	13	1382.068
Flat	O	75	13	1321.978
Flat	O	71	14	
Flat	O	72	14	1442.158
Flat	O	73	14	1562.337
Flat	O	74	14	1261.888
Flat	O	75	14	1081.618
Flat	O	71	15	
Flat	O	72	15	1442.158
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Flat	O	74	15	1261.888
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Flat	P	78	9	3244.855
Flat	P	79	9	3665.484
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Flat	P	77	10	2523.776
Flat	P	78	10	2704.045
Flat	P	79	10	3184.765
Flat	P	80	10	2103.146
Flat	P	76	11	
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Flat	P	79	12	3004.495
Flat	P	80	12	1442.158
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Flat	P	78	13	2223.326
Flat	P	79	13	2643.956
Flat	P	80	13	1802.697
Flat	P	76	14	
Flat	P	77	14	2283.416
Flat	P	78	14	2163.236
Flat	P	79	14	2283.416
Flat	P	80	14	2403.596
Flat	P	76	15	
Flat	P	77	15	2523.776
Flat	P	78	15	2163.236
Flat	P	79	15	2163.236
Flat	P	80	15	2704.045
Flat	Q	81	8	2043.057
Flat	Q	82	8	4146.203
Flat	Q	83	8	3064.585
Flat	Q	84	8	1321.978
Flat	Q	85	8	2704.045
Flat	Q	81	9	1682.517
Flat	Q	82	9	
Flat	Q	83	9	3064.585
Flat	Q	84	9	1982.967
Flat	Q	85	9	2764.135
Flat	Q	81	10	2523.776
Flat	Q	82	10	
Flat	Q	83	10	3244.855
Flat	Q	84	10	2103.146
Flat	Q	85	10	2824.225
Flat	Q	81	11	2523.776
Flat	Q	82	11	
Flat	Q	83	11	2463.686

Flat	Q	84	11	2523.776
Flat	Q	85	11	2403.596
Flat	Q	81	12	2103.146
Flat	Q	82	12	
Flat	Q	83	12	2403.596
Flat	Q	84	12	2944.405
Flat	Q	85	12	2043.057
Flat	Q	81	13	1982.967
Flat	Q	82	13	
Flat	Q	83	13	2343.506
Flat	Q	84	13	3064.585
Flat	Q	85	13	1742.607
Flat	Q	81	14	2043.057
Flat	Q	82	14	
Flat	Q	83	14	3365.034
Flat	Q	84	14	3244.855
Flat	Q	85	14	1622.427
Flat	Q	81	15	3665.484
Flat	Q	82	15	
Flat	Q	83	15	3785.664
Flat	Q	84	15	3304.944
Flat	Q	85	15	1742.607
Flat	R	86	8	2103.146
Flat	R	87	8	2283.416
Flat	R	88	8	2704.045
Flat	R	89	8	3244.855
Flat	R	90	8	3665.484
Flat	R	86	9	2403.596
Flat	R	87	9	2643.956
Flat	R	88	9	2403.596
Flat	R	89	9	4206.293
Flat	R	90	9	3485.214
Flat	R	86	10	2523.776
Flat	R	87	10	2764.135
Flat	R	88	10	2523.776
Flat	R	89	10	2884.315
Flat	R	90	10	
Flat	R	86	11	2463.686
Flat	R	87	11	2944.405
Flat	R	88	11	2643.956
Flat	R	89	11	2764.135
Flat	R	90	11	
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Flat	R	90	12	
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Flat	R	87	13	2643.956
Flat	R	88	13	2704.045
Flat	R	89	13	3124.675
Flat	R	90	13	
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Flat	R	87	14	
Flat	R	88	14	2764.135

Flat	R	89	14	
Flat	R	90	14	
Flat	R	86	15	3064.585
Flat	R	87	15	
Flat	R	88	15	
Flat	R	89	15	
Flat	R	90	15	
Flat	S	91	8	1201.798
Flat	S	92	8	1862.787
Flat	S	93	8	1321.978
Flat	S	94	8	1922.877
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Flat	S	92	9	2103.146
Flat	S	93	9	1442.158
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Flat	S	95	9	1802.697
Flat	S	91	10	1622.427
Flat	S	92	10	2043.057
Flat	S	93	10	1622.427
Flat	S	94	10	2043.057
Flat	S	95	10	1982.967
Flat	S	91	11	1802.697
Flat	S	92	11	2163.236
Flat	S	93	11	1742.607
Flat	S	94	11	1982.967
Flat	S	95	11	1982.967
Flat	S	91	12	1802.697
Flat	S	92	12	1922.877
Flat	S	93	12	1742.607
Flat	S	94	12	1922.877
Flat	S	95	12	1862.787
Flat	S	91	13	1682.517
Flat	S	92	13	1982.967
Flat	S	93	13	1802.697
Flat	S	94	13	1922.877
Flat	S	95	13	1802.697
Flat	S	91	14	1442.158
Flat	S	92	14	1802.697
Flat	S	93	14	1802.697
Flat	S	94	14	1862.787
Flat	S	95	14	1742.607
Flat	S	91	15	1442.158
Flat	S	92	15	1862.787
Flat	S	93	15	1682.517
Flat	S	94	15	1622.427
Flat	S	95	15	1862.787
Flat	T	96	8	2403.596
Flat	T	97	8	2163.236
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Flat	T	99	8	3064.585
Flat	T	100	8	2043.057
Flat	T	96	9	2283.416
Flat	T	97	9	1982.967
Flat	T	98	9	2043.057

Flat	T	99	9	3244.855
Flat	T	100	9	2223.326
Flat	T	96	10	2343.506
Flat	T	97	10	1982.967
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Flat	T	99	10	2523.776
Flat	T	100	10	2103.146
Flat	T	96	11	2043.057
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Flat	T	98	12	1502.247
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Flat	T	99	14	2043.057
Flat	T	100	14	1622.427
Flat	T	96	15	1562.337
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Flat	T	98	15	1562.337
Flat	T	99	15	2343.506
Flat	T	100	15	1742.607
Flat	U	101	8	2523.776
Flat	U	102	8	2163.236
Flat	U	103	8	2043.057
Flat	U	104	8	2223.326
Flat	U	105	8	2343.506
Flat	U	101	9	2824.225
Flat	U	102	9	2163.236
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Flat	U	104	9	2403.596
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Flat	U	101	10	2283.416
Flat	U	102	10	2043.057
Flat	U	103	10	2283.416
Flat	U	104	10	2523.776
Flat	U	105	10	2283.416
Flat	U	101	11	2343.506
Flat	U	102	11	2043.057
Flat	U	103	11	1862.787
Flat	U	104	11	2704.045
Flat	U	105	11	2043.057
Flat	U	101	12	2343.506
Flat	U	102	12	2043.057
Flat	U	103	12	1982.967

Flat	U	104	12	2704.045
Flat	U	105	12	2163.236
Flat	U	101	13	2283.416
Flat	U	102	13	1922.877
Flat	U	103	13	1922.877
Flat	U	104	13	2704.045
Flat	U	105	13	2643.956
Flat	U	101	14	2223.326
Flat	U	102	14	1862.787
Flat	U	103	14	1922.877
Flat	U	104	14	2523.776
Flat	U	105	14	
Flat	U	101	15	2103.146
Flat	U	102	15	1862.787
Flat	U	103	15	1982.967
Flat	U	104	15	2463.686
Flat	U	105	15	
Flat	V	106	8	2043.057
Flat	V	107	8	2824.225
Flat	V	108	8	2223.326
Flat	V	109	8	2824.225
Flat	V	110	8	2403.596
Flat	V	106	9	1201.798
Flat	V	107	9	2343.506
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Flat	V	109	9	2944.405
Flat	V	110	9	2944.405
Flat	V	106	10	961.4384
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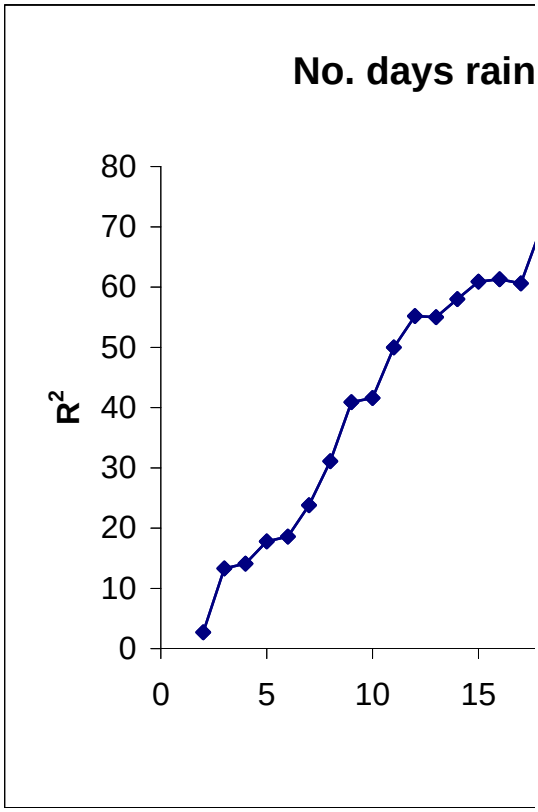
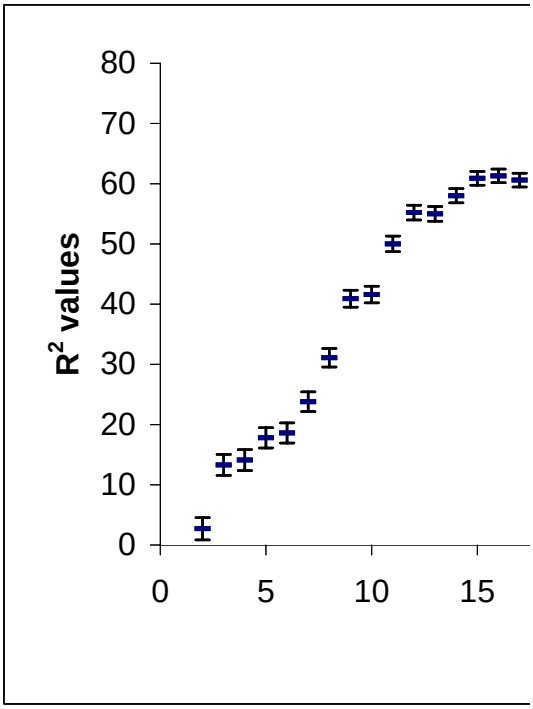
Flat	V	108	10	2583.866
Flat	V	109	10	2523.776
Flat	V	110	10	2764.135
Flat	V	106	11	1682.517
Flat	V	107	11	1982.967
Flat	V	108	11	2463.686
Flat	V	109	11	2343.506
Flat	V	110	11	2463.686
Flat	V	106	12	1922.877
Flat	V	107	12	2523.776
Flat	V	108	12	2403.596
Flat	V	109	12	2223.326
Flat	V	110	12	2523.776
Flat	V	106	13	2583.866
Flat	V	107	13	2523.776
Flat	V	108	13	2103.146
Flat	V	109	13	1922.877
Flat	V	110	13	2283.416
Flat	V	106	14	2103.146
Flat	V	107	14	3244.855
Flat	V	108	14	2043.057
Flat	V	109	14	1922.877
Flat	V	110	14	2043.057
Flat	V	106	15	1742.607
Flat	V	107	15	2824.225
Flat	V	108	15	1982.967

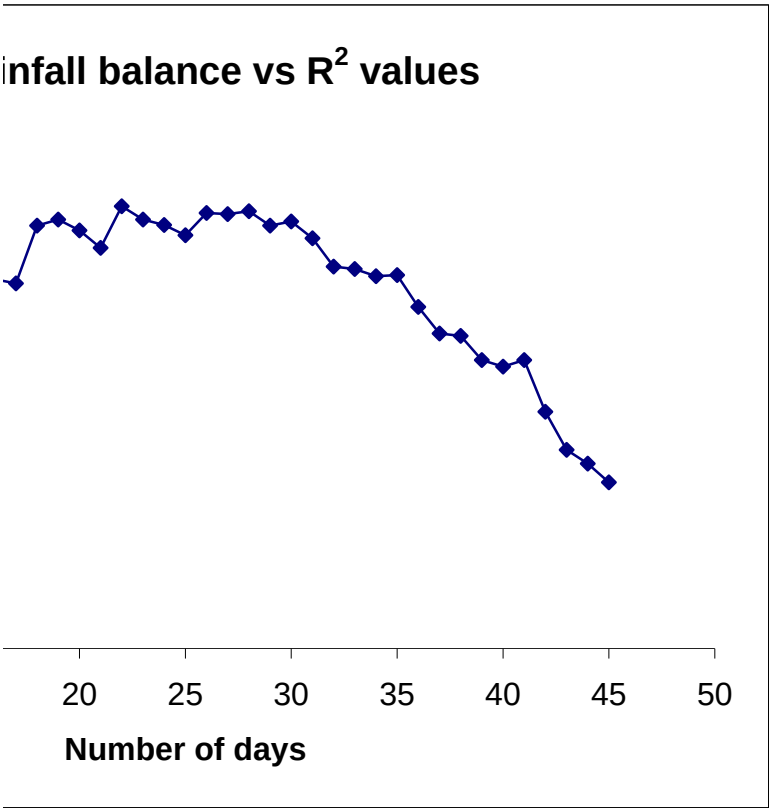
Flat	V	109	15	1802.697
Flat	V	110	15	1922.877

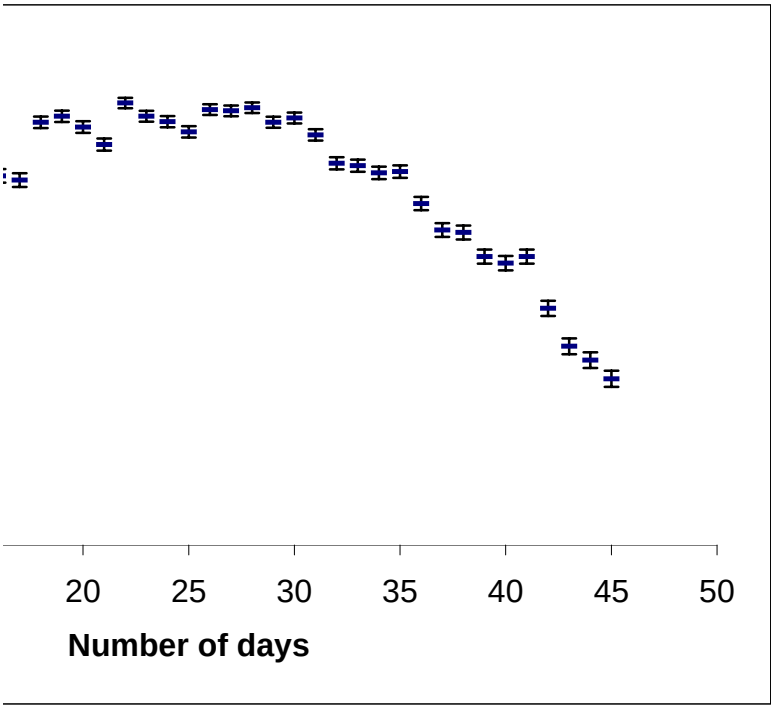
Number of days water balance vs R square values

No. days	R square	S.E. of observations	Significance
1		1.89	0.657
2	2.7	1.84	0.182
3	13.3	1.74	0.01
4	14.1	1.73	0.008
5	17.8	1.69	0.003
6	18.6	1.68	0.002
7	23.8	1.63	<0.001
8	31.1	1.55	<0.001
9	40.9	1.4	<0.001
10	41.6	1.39	<0.001
11	50	1.29	<0.001
12	55.2	1.22	<0.001
13	55	1.22	<0.001
14	58	1.18	<0.001
15	60.9	1.14	<0.001
16	61.3	1.13	<0.001
17	60.6	1.14	<0.001
18	70.2	0.957	<0.001
19	71.2	0.941	<0.001
20	69.4	0.97	<0.001
21	66.5	1.01	<0.001
22	73.4	0.868	<0.001
23	71.2	0.904	<0.001
24	70.3	0.918	<0.001
25	68.6	0.944	<0.001
26	72.3	0.885	<0.001
27	72.1	0.887	<0.001
28	72.6	0.879	<0.001
29	70.2	0.914	<0.001
30	70.9	0.905	<0.001
31	68.1	0.947	<0.001
32	63.4	1.01	<0.001
33	63	1.01	<0.001
34	61.8	1.03	<0.001
35	62	1.03	<0.001
36	56.7	1.1	<0.001
37	52.3	1.15	<0.001
38	51.9	1.16	<0.001
39	47.9	1.17	<0.001
40	46.8	1.19	<0.001
41	47.9	1.17	<0.001
42	39.3	1.27	<0.001
43	33	1.31	<0.001
44	30.7	1.31	<0.001
45	27.6	1.35	<0.001






infall balance vs R2 values
20
25
30
35
40
45
50
Number of days


20
25
30
35
40
45
50
Number of days

Date	Tmax C	Tmin C	RH %	Sun hr	Solar MJ/m2	Net MJ/m2	Wind km/d	ET mm/d
20/04/2004	14.1	4.2	60	8.1	16.9	8.81	193.1	2.7
21/04/2004	13.5	9.2	77	0	4.8	4.19	253.9	1.5
22/04/2004	14.5	6.5	64	9.7	18.9	9.78	140.1	2.8
23/04/2004	16	4.2	73	1.4	9.7	6.27	78.5	1.7
24/04/2004	18.9	7.6	75	5.9	14.8	8.51	63	2.1
25/04/2004	19.5	9.8	68	7.5	16.8	9.29	46.8	2.5
26/04/2004	17.5	9.2	76	1.7	10.3	6.64	68	2.1
27/04/2004	10.5	7.8	86	0	2.8	3.44	127.3	1.3
28/04/2004	8.8	7.2	87	0	3.7	3.81	174.6	1
29/04/2004	8.2	6.4	83	0	4.8	4.34	219.9	1.2
30/04/2004	9.4	7.7	87	0	5.6	4.7	140.6	1
01/05/2004	14	5.7	73	9.9	20.1	10.94	131	2.6
02/05/2004	17.9	3.9	67	8.1	18.1	10.12	95.4	2.6
03/05/2004	12.5	7.2	65	7.6	17.6	9.81	154.6	2.8
04/05/2004	11.5	4.8	77	1.8	11	7.1	175.7	2
05/05/2004	11.1	4.1	81	3.7	13.2	8.16	111	1.8
06/05/2004	13	6.5	80	6.1	16.1	9.49	129.8	2.1
07/05/2004	12.8	6.1	83	1.1	10.3	6.93	125.3	1.7
08/05/2004	12	9.1	90	0	5.9	4.89	151.9	1.1
09/05/2004	14.1	9.3	90	0	7.5	5.67	86.1	1.3
10/05/2004	16.3	8.8	85	6.8	17.2	10.23	114.2	2.6
11/05/2004	9.9	8.4	86	0	5.2	4.63	79.7	1.3
12/05/2004	11.5	6.3	75	2	11.7	7.64	65.7	1.7
13/05/2004	17.8	5.3	75	6.1	16.7	10	69.7	2.3
14/05/2004	19.3	11.4	76	5.9	16.5	9.98	152.7	2.8
15/05/2004	20	9.9	73	7.8	18.8	11.12	135.4	3.2
16/05/2004	20	9.1	71	8.3	19.5	11.43	98.5	3.2
17/05/2004	16.8	7.8	71	7.9	19	11.21	106.6	3
18/05/2004	18.1	8.7	59	11	22.8	12.64	132.5	3.6
19/05/2004	17.2	9.4	62	6.3	17.2	10.29	165.5	3.1
20/05/2004	13.7	5.9	74	3.6	14.1	8.86	103.5	2.5
21/05/2004	10.7	6.1	74	5.5	16.3	9.94	87.3	2.3
22/05/2004	13.8	2.3	63	11.9	24.1	13.45	107.1	3.1
23/05/2004	18.4	4.7	63	11.6	23.8	13.37	93.8	3.2
24/05/2004	17.3	5.5	67	6.2	17.4	10.53	115.5	2.8
25/05/2004	11.1	6.4	71	2.2	12.6	8.28	81	2.1
26/05/2004	11.3	3.9	70	4.9	15.9	9.81	70	2.2
27/05/2004	14	2.9	72	11.3	23.6	13.54	114.8	2.9
28/05/2004	16.5	7.1	68	3.5	14.3	9.14	191.2	2.4
29/05/2004	17.2	9.2	74	0	8.1	6.17	151.4	1.7
30/05/2004	17.6	5.5	77	1.6	12.1	8.11	49.9	2.2
31/05/2004	16.7	7.2	82	9.3	21.4	12.81	103.6	3
01/06/2004	14.4	11.3	89	0	5.3	4.78	36.3	1.1
02/06/2004	15.5	9.8	75	5.5	16.9	10.5	87.5	2.7
03/06/2004	16.2	10.5	84	0	7.3	5.81	84.4	1.5
04/06/2004	18	11.9	69	4.6	15.8	9.97	162.2	2.9
05/06/2004	19.3	7.7	76	2.8	13.7	9.02	71.1	2.3
06/06/2004	22.5	13.6	73	5.9	17.4	10.96	67.8	2.8
07/06/2004	20.5	12.8	75	8.2	20.2	12.34	95.6	3.6
08/06/2004	18.7	12.2	87	0	9.8	7.12	90.3	1.9
09/06/2004	21	11.9	71	4.1	15.3	9.85	65.8	2.7
10/06/2004	21.8	9.7	68	8.9	21.2	12.78	119.9	3.7
11/06/2004	17.3	12.1	71	5.5	17	10.61	134.2	3.2

12/06/2004	17.4	9.9	74	5.2	16.7	10.51	140.1	2.9
13/06/2004	21.9	7.6	76	8.4	20.6	12.66	107.1	3.2
14/06/2004	21.6	14.7	73	8.8	21.1	12.9	190.1	3.7
15/06/2004	20.3	11.6	71	6.8	18.6	11.52	188.8	3.6
16/06/2004	21.5	10.4	71	4.1	15.4	9.85	67.8	3
17/06/2004	16.7	11.2	76	0	10.1	7.25	127	2.3
18/06/2004	12.7	6.9	78	3.9	15.1	9.71	121.5	2.5
19/06/2004	11.2	6.6	76	1.9	12.7	8.46	121.8	2.1
20/06/2004	12.5	7.4	78	2.1	13	8.63	67.9	2
21/06/2004	14.3	5.5	81	2.7	13.6	8.99	59.6	2
22/06/2004	17.6	5.7	73	9.8	22.3	13.3	175.5	3.1
23/06/2004	17.8	11.2	86	2.3	13.1	8.82	286.2	2.2
24/06/2004	11.6	9.7	86	0	4.5	4.42	238	1.5
25/06/2004	15.5	9.3	73	4.4	15.7	9.95	115.9	2.5
26/06/2004	15.4	7.3	84	0	8.7	6.53	155.2	1.6
27/06/2004	20.1	10.7	73	4.2	15.4	9.89	106.4	2.5
28/06/2004	17.7	9.1	68	6.1	17.7	10.9	88.1	3.1
29/06/2004	18.2	10.5	75	0.9	11.4	7.89	73.1	2
30/06/2004	18.8	11.8	77	3.1	14.1	9.22	150.4	2.7
01/07/2004	17.5	10.1	70	6.7	18.4	11.22	80.7	3.2
02/07/2004	18.5	8.3	71	5.9	17.4	10.78	79.4	2.8
03/07/2004	14.7	10.7	82	0	8.7	6.51	48.9	1.7
04/07/2004	15.3	10.8	85	2.6	13.4	8.85	74	2.2
05/07/2004	18.3	10.2	78	4.4	15.5	9.82	71.2	2.6
06/07/2004	18.4	8.2	77	5.2	16.5	10.29	66.4	2.8
07/07/2004	16.6	9.3	80	6.5	18	11.1	151.6	2.8
08/07/2004	13.5	10	76	0	7.8	6.02	216.9	1.9
09/07/2004	14.5	10	76	0	9.1	6.63	143.6	2
10/07/2004	14.7	10.3	82	0	7.6	5.9	42.5	1.5
11/07/2004	14	10.8	85	0	6.9	5.56	58.3	1.4
12/07/2004	16.8	10.5	79	1	11.1	7.61	69.6	2.1
13/07/2004	17.9	9.9	72	4.3	15.1	9.51	48.5	2.5
14/07/2004	19.6	12.3	75	4.2	14.9	9.49	150.5	2.7
15/07/2004	17.7	11.8	68	3.3	13.8	8.84	58.3	2.6
16/07/2004	19.7	11.3	70	8	19.3	11.52	88.3	3.2
17/07/2004	18.1	10.7	79	0.4	10.2	7.12	31.8	2.1
18/07/2004	19.2	9.2	68	6.9	17.9	10.72	64.4	2.9
19/07/2004	19.6	8.5	72	1.7	11.7	7.77	44.1	2.1
20/07/2004	22.4	13.4	74	4.8	15.3	9.58	175.1	3
21/07/2004	22.9	14.5	74	5	15.5	9.68	86.6	3
22/07/2004	21.5	12	76	2.3	12.3	8.1	67.8	2.6
23/07/2004	19.4	10.5	71	8.2	19.1	11.27	87.7	3.2
24/07/2004	17.1	11.9	72	0	8.6	6.26	78	2
25/07/2004	18.6	10.7	78	4.2	14.3	8.96	84.4	2.6
26/07/2004	17.5	8.9	78	7.5	18.1	10.8	80.7	2.7
27/07/2004	20.5	12.7	75	6.8	17.3	10.37	79.2	2.6
28/07/2004	21.8	12.7	78	4.1	14	8.88	123.9	2.6
29/07/2004	23.4	15.3	75	4	13.9	8.76	129.7	2.9
30/07/2004	20.7	14.7	86	4.6	14.5	9.15	79.1	2.7
31/07/2004	17.1	12.2	93	0	5.2	4.51	32.3	1.4
01/08/2004	17	12.2	90	0	8.2	5.98	50.6	1.5
02/08/2004	17.2	13.8	89	0.9	9.9	6.8	131.8	1.8
03/08/2004	19.5	14.3	92	0.8	9.9	6.79	95.7	1.7
04/08/2004	19.6	15	91	1.8	10.8	7.25	55.2	2
05/08/2004	20.7	15.6	89	3.1	12.3	7.96	131.1	2.2

06/08/2004	25.6	15.6	83	3	12.2	7.84	49	2.3
07/08/2004	22.9	14	85	6.5	16.1	9.67	94.6	3.1
08/08/2004	21.9	15.7	88	7.2	16.8	10.1	206	2.8
09/08/2004	19.8	16.7	92	0	3.7	3.67	96.8	1.2
10/08/2004	17.6	16.4	98	0	2.6	3.09	79.7	0.9
11/08/2004	21.8	15.7	93	3.3	12	7.7	83	2.1
12/08/2004	17.7	15	98	0	3.3	3.45	131.1	1
13/08/2004	17.4	13.1	91	0	6.4	4.91	132.3	1.2
14/08/2004	21	9.5	80	4.9	13.5	8.07	54.8	2.2
15/08/2004	22.2	13.8	79	3.4	11.9	7.37	36.1	1.8
16/08/2004	22.4	14	84	2.2	10.4	6.66	32.9	2
17/08/2004	20.6	11.6	82	3.3	11.6	7.16	71.7	2.2
18/08/2004	21.6	13.6	85	1.3	9.3	6.15	157.4	1.9
19/08/2004	18.6	13.3	89	0	6.7	4.94	84.2	1.6
20/08/2004	16.3	10.9	78	1.3	9.1	5.91	91.5	1.8
21/08/2004	16.7	8.8	72	5.3	13.4	7.43	64.7	2.2
22/08/2004	17.1	7.6	76	6	14	7.76	108.3	2.1
23/08/2004	14.9	13.6	91	0	4.2	3.77	205.3	0.9
24/08/2004	18.9	13.6	91	1.6	9.2	5.89	31.5	1.4
25/08/2004	16.4	11.6	85	0	6.8	4.85	136.8	1.5
26/08/2004	17.5	8.2	81	2.5	9.9	6	85	1.7
27/08/2004	18.3	11.8	70	5.6	13.1	7.12	164.5	2.2
28/08/2004	17	10	71	4.4	11.6	6.46	71.2	2
29/08/2004	18.1	10.9	74	4	11.2	6.3	114.6	2
30/08/2004	16.7	10	76	2	9	5.47	192.8	2
31/08/2004	16.5	8.7	71	7.6	14.7	7.25	76.2	2.2
01/09/2004	19	8.2	78	4.6	11.5	6.24	55.4	1.7
02/09/2004	20.6	9.3	74	3.6	10.3	5.84	43.2	1.5
03/09/2004	21	12.5	72	5.8	12.4	6.51	118.2	2.2
04/09/2004	22.9	15.3	78	2.6	9.2	5.47	88.8	1.7
05/09/2004	24.4	12.7	81	5.7	12.1	6.49	42.5	2.1
06/09/2004	16.5	13.2	88	0	5	3.82	115.8	1.4
07/09/2004	16	11.1	78	7.5	13.6	6.64	72.4	1.9
08/09/2004	17.5	7.6	84	8.2	14.2	6.83	73.6	1.8
09/09/2004	19.2	9.2	84	5.9	11.8	6.06	135.8	1.6
10/09/2004	20.4	8.4	86	2.2	8.1	4.79	62.1	1.3
11/09/2004	19.6	11.2	77	4	9.8	5.21	136.1	1.6
12/09/2004	16.7	10.6	75	1.8	7.5	4.37	205.6	1.9
13/09/2004	15.7	10.4	68	5.7	11.1	5.19	200.8	2.2
14/09/2004	16.2	9.3	78	2.8	8.3	4.44	207.2	1.9
15/09/2004	15	7.2	71	4.6	9.9	4.67	75.7	1.6
16/09/2004	17.1	6	76	1.1	6.5	3.92	208.6	1.3
17/09/2004	18.4	9.6	75	3.7	8.8	4.43	106.8	1.4
18/09/2004	16.5	10.6	71	4.8	9.6	4.51	137.8	1.7
19/09/2004	16.1	9.6	71	4.5	9.3	4.31	135.6	1.7
20/09/2004	14.8	10.9	69	6.8	11.2	4.67	224.8	1.9
21/09/2004	14.2	9.6	70	7.2	11.4	4.5	273.2	2.2
22/09/2004	13.3	9.7	79	0	3.7	2.98	164.6	1.2
23/09/2004	15.7	7.9	71	4.7	9	3.88	202.5	1.8
24/09/2004	14.1	5.6	68	3.9	8.2	3.56	134.8	1.7
25/09/2004	16.9	5.9	79	0.2	5	3.13	143.2	1
26/09/2004	18.3	11.2	79	0.7	5.3	3.15	147.6	1.1
27/09/2004	16.8	10.9	78	1	5.5	3.13	137.7	1.2
28/09/2004	18	11.1	82	1.1	5.4	3.09	154.6	1.2
29/09/2004	14	8.3	78	3.5	7.3	3.21	86.3	1.3

30/09/2004	15.7	10.7	87	0	2.5	2.49	120.8	0.7
01/10/2004	15.2	6.9	83	1.8	5.7	2.92	129	1.1
02/10/2004	13.8	9.2	71	0.9	4.9	2.68	120	1.2
03/10/2004	13.9	6.9	81	1.2	5.1	2.71	202.9	1
04/10/2004	16.1	8.9	75	3.2	6.6	2.68	200.9	1.4
05/10/2004	14.7	9.4	69	3.6	6.8	2.53	201.9	1.7
06/10/2004	12	8.8	72	2.8	6	2.44	171.9	1.4
07/10/2004	14.6	7.4	74	5.9	8.2	2.38	111	1.1
08/10/2004	11.5	6.4	83	0.8	4.4	2.32	69.4	0.8
09/10/2004	10.6	7.2	78	0	3.4	2.24	86.1	0.8
10/10/2004	11.3	7.8	72	0	3.7	2.18	165.4	1
11/10/2004	12.4	9.7	67	1.1	4.4	2.05	271.3	1.7
12/10/2004	11.9	9.7	79	0	1.2	2.17	212.5	1.1
13/10/2004	13.4	10.1	88	2.6	5.3	2.06	141.7	0.6
14/10/2004	12.8	6.1	89	3.1	5.5	1.88	42.1	0.7
15/10/2004	10.4	3.4	91	0	3	1.97	40.3	0.5
16/10/2004	10.2	8	88	0	2.1	1.99	125.5	0.4
17/10/2004	11.9	7.8	87	1.6	4.2	1.73	88.6	0.6
18/10/2004	12.6	6.3	80	5.4	6.6	1.18	66.6	0.7
19/10/2004	10	5.8	83	0	2.1	1.88	195.3	0.9
20/10/2004	11	6.1	94	0	0.8	2	73	0.4
21/10/2004	12.7	7.5	77	2.3	4.4	1.31	229.3	1
22/10/2004	13.1	6.8	78	1.2	3.6	1.39	71.7	0.7
23/10/2004	10.8	6.7	88	0.3	3	1.5	24.6	0.5
24/10/2004	15.2	8.7	86	1.6	3.7	1.3	134.7	0.5
25/10/2004	13.4	7.9	86	0	1.5	1.77	71.2	0.7
26/10/2004	11.6	4.9	84	3.7	4.8	0.72	16.9	0.4
27/10/2004	11.1	3.6	86	0.5	2.9	1.28	233.5	0.5
28/10/2004	14	9.9	88	1.3	3.3	1.11	223.8	0.5
29/10/2004	11.8	9.7	93	0	1.6	1.58	117.3	0.4
30/10/2004	11.5	8.7	98	0	1.1	1.69	33.5	0.4
31/10/2004	12.3	5.9	89	0	2.2	1.28	29.9	0.5
01/11/2004	10.5	5.2	88	0.8	2.7	0.98	12.4	0.4
02/11/2004	10.9	4.9	89	0	1.4	1.5	138.9	0.2
03/11/2004	12.4	8.5	85	0	2	1.2	105	0.4
04/11/2004	11.5	7	77	3.2	3.8	0.09	141.6	0.7
05/11/2004	10.5	5.7	77	1.2	2.7	0.63	164.4	0.7
06/11/2004	12.7	9.6	90	0	1.5	1.31	58	0.1
07/11/2004	12.4	10.1	90	0.5	2.3	0.85	88.2	0.3
08/11/2004	11.6	6.6	87	0.1	2	0.9	25.6	0.4
09/11/2004	10.5	4.8	87	0	1.6	1.12	68.2	0.5
10/11/2004	8.5	2.7	76	0.3	2.1	0.7	155.7	0.6
11/11/2004	12.3	2.1	83	0	1.8	0.88	130	0.2
12/11/2004	13	2.1	71	1.7	2.6	0.12	253	0.8
13/11/2004	7.6	-0.2	68	3.3	3.3	-0.7	112.2	0.7
14/11/2004	10.5	2.3	80	2.1	2.7	-0.09	161.7	0.1
15/11/2004	10.9	7.5	81	0	0.9	1.44	198.3	0.6
16/11/2004	12.5	7.6	90	0	1.3	0.99	74.2	0.2
17/11/2004	12.6	6.7	76	1.9	2.4	-0.09	280.6	0.6
18/11/2004	6.7	1.5	71	0	0.9	1.35	126.9	1
19/11/2004	3.7	-1.3	61	3.2	2.9	-1.06	112.5	0.6
20/11/2004	3.1	-3.2	71	2.2	2.5	-0.58	39	0.2
21/11/2004	12	-4.1	83	0	0.6	1.58	89.9	0.5
22/11/2004	12	9.6	81	0.8	1.8	0.16	281.9	0.5
23/11/2004	9.6	7.8	93	0	0.9	1.13	57.9	0.5

24/11/2004	12.6	7	89	0.3	1.5	0.39	35.1	0.1
25/11/2004	11.7	8.2	85	0	1.3	0.62	92.5	0.4
26/11/2004	11.4	5	80	1.3	1.9	-0.16	116.5	0.4
27/11/2004	8.6	4.6	80	0.4	1.5	0.24	84.8	0.4
28/11/2004	7.2	4	82	0	1.3	0.49	166.6	0.5
29/11/2004	6.1	0.5	79	2.4	2.2	-0.95	41.9	0.2
30/11/2004	6.3	1.7	78	1.2	1.8	-0.31	131.4	0.3
01/12/2004	6.4	1.6	86	0	1.2	0.48	13.8	0.1
02/12/2004	4.9	-1.3	86	1.9	2	-0.65	39.4	0.1
03/12/2004	10	-1.8	88	0	0.7	1.18	52.4	0.1
04/12/2004	11.7	9.5	77	0.7	1.5	-0.04	97.6	0
05/12/2004	11	5.2	80	1.4	1.7	-0.45	105.4	0.5
06/12/2004	11.8	7.4	74	0.7	1.5	-0.1	143.4	0.4
07/12/2004	8.9	0.2	80	1.7	1.8	-0.66	28.4	0.3
08/12/2004	10.3	-1.4	85	2.1	1.9	-0.9	78.9	0.1
09/12/2004	6.9	1.2	85	1.5	1.7	-0.6	101	0.1
10/12/2004	7.8	-1.3	87	1.2	1.6	-0.42	17.3	0
11/12/2004	9.7	1	91	0	0.8	0.91	8	0
12/12/2004	9.2	4.7	88	1.7	1.7	-0.68	118.2	0
13/12/2004	7.1	4	78	0	0.7	1.1	152.5	0.7
14/12/2004	11.9	3.7	76	0	0.3	1.63	272.7	0.5
15/12/2004	12.6	2.6	78	1.2	1.6	-0.47	127.1	0.5
16/12/2004	10.3	5.3	71	1.1	1.5	-0.42	263.7	0.9
17/12/2004	5.9	1.2	75	1.2	1.5	-0.49	149.5	0.6
18/12/2004	5.2	1.8	73	0.9	1.5	-0.37	137.8	0.5
19/12/2004	4.1	-2.2	71	1.1	1.5	-0.46	41.4	0.2
20/12/2004	3.3	-2.1	77	0	0.8	0.82	84.2	0.3
21/12/2004	6.7	0.5	78	1.2	1.6	-0.51	101.3	0
22/12/2004	11.7	6.6	79	0	1.2	0.25	327.5	0.3
23/12/2004	11.9	7.8	73	1.2	1.6	-0.45	376	1.2
24/12/2004	8.3	2.3	75	0	0.8	0.84	205.4	1.1
25/12/2004	2.6	-0.2	74	2.2	1.9	-1.13	155.8	0.5
26/12/2004	4.5	-1.2	75	1.7	1.8	-0.8	120.8	0.3
27/12/2004	7.8	-1.9	80	0.1	1.2	0.21	176.6	0.3
28/12/2004	6.7	1.7	79	1.2	1.6	-0.44	198.9	0.6
29/12/2004	12.7	1.8	78	0	0.8	1.01	128.8	0.5
30/12/2004	12.7	6.3	79	0	1	0.68	187	0.3
31/12/2004	7.7	4.4	86	1.4	1.7	-0.5	57.3	0.3
01/01/2005	10	2.4	78	0.5	1.4	0.02	237.8	0.6
02/01/2005	6.7	2.1	75	0.7	1.5	-0.13	244.8	0.9
03/01/2005	10.1	6.3	73	0	1	0.78	219.2	0.7
04/01/2005	10.7	5.1	72	0	1.2	0.4	284.1	1.1
05/01/2005	9	5	71	0	1	0.74	265.6	1.2
06/01/2005	12.2	4.6	73	0	0.9	0.91	228.2	1
07/01/2005	12.9	8.3	79	0	0.7	1.29	294.1	0.8
08/01/2005	11.5	2.4	72	0.1	1.4	0.29	431.4	1.7
09/01/2005	14	5.4	75	0	1	0.97	303.7	1.3
10/01/2005	13.9	6	68	1.3	1.9	-0.3	288.6	1.3
11/01/2005	11.1	5.5	70	0	1.1	0.82	343.7	1.5
12/01/2005	6.9	3.3	66	1.7	2.1	-0.51	381.2	1.4
13/01/2005	5	-0.4	81	0	1.5	0.47	128.1	0.4
14/01/2005	4.6	-2.1	84	0.9	1.8	0.09	147.3	0.2
15/01/2005	10.5	3.5	86	1.1	1.9	0.05	288	0.3
16/01/2005	10.9	6.6	71	0.6	1.8	0.24	254.1	0.9
17/01/2005	10.2	1.6	71	1.2	2.1	-0.01	242.2	0.9

18/01/2005	4.5	0.7	72	0.9	2	0.12	235.8	0.9
19/01/2005	11.1	2.3	76	0	1.4	0.86	278.1	1
20/01/2005	9	3.7	70	2	2.5	-0.25	419.8	1
21/01/2005	5.9	-0.3	71	2.2	2.6	-0.34	176.2	0.8
22/01/2005	3.4	-1.6	76	0.8	2.1	0.31	58.3	0.4
23/01/2005	4.3	-1.1	68	0.7	2.1	0.41	173.8	0.6
24/01/2005	4.7	1.2	75	0	1.8	0.77	184.7	0.6
25/01/2005	5.6	2.5	87	0	0.9	1.54	112.6	0.4
26/01/2005	7.1	3.5	85	0.1	1.9	0.79	117.9	0.3
27/01/2005	7.4	5.7	80	0.1	2	0.78	205.3	0.6
28/01/2005	7.2	5.5	76	0	1.3	1.38	229.6	0.9
29/01/2005	9.5	2.3	83	2.6	3.2	0.05	83.1	0.3
30/01/2005	8.8	1.9	81	2.9	3.5	0	189.7	0.5
31/01/2005	12	6.3	80	1.9	3.1	0.39	244.9	0.7
01/02/2005	11.5	2.9	84	0.7	2.5	0.81	76.5	0.5
02/02/2005	9.7	3.3	79	2.5	3.5	0.31	146.6	0.6
03/02/2005	11.2	5.9	81	1.8	3.2	0.58	133.8	0.5
04/02/2005	9.8	6.4	70	2	3.4	0.49	188.3	1
05/02/2005	7.3	5	81	0	1	1.79	161.1	0.8
06/02/2005	6.5	3.3	86	0	1.7	1.52	28.2	0.4
07/02/2005	5.7	2.6	83	1.8	3.4	0.82	179.3	0.5
08/02/2005	9.3	1.5	75	0.9	3	1.05	208.7	0.8
09/02/2005	10.5	6.5	72	0	2.2	1.44	247	1
10/02/2005	10.4	4.2	69	1.7	3.6	0.92	243.1	1.4
11/02/2005	7.1	1.9	81	0	2.2	1.57	100.7	0.7
12/02/2005	10.1	2.9	75	1.5	3.6	1.13	285.5	1.1
13/02/2005	7.6	1.7	66	0.7	3.2	1.3	315.7	1.6
14/02/2005	5.8	1.7	64	0	2.7	1.54	262.5	1.3
15/02/2005	6.7	1.1	82	3.3	5	1.06	105.4	0.5
16/02/2005	6.1	-2	80	1.2	3.7	1.46	54.4	0.4
17/02/2005	8.8	4.4	80	2.2	4.4	1.4	62.2	0.2
18/02/2005	9.6	2.5	69	4.1	5.7	1.15	224.6	1.1
19/02/2005	4	0.9	57	1.1	3.9	1.55	250.6	1.5
20/02/2005	3	-0.5	79	3.2	5.3	1.49	213.8	0.7
21/02/2005	3.7	-0.8	81	1.8	4.5	1.72	144.3	0.5
22/02/2005	4.2	0.9	74	1.4	4.3	1.79	185.3	0.8
23/02/2005	2.7	0.1	74	1.5	4.4	1.86	266.1	0.9
24/02/2005	3.6	1.4	77	0	0.6	2.28	307.7	0.9
25/02/2005	5.2	2.1	75	0	1.5	2.22	167.6	0.7
26/02/2005	5.7	2.3	79	0.1	3.7	2.14	151.3	0.7
27/02/2005	3.2	0.9	81	0	3.7	2.2	52.1	0.6
28/02/2005	4.3	0.5	75	0	3.7	2.25	117.7	0.7
01/03/2005	3.6	0.2	86	0	2	2.3	51.1	0.5
02/03/2005	2.9	-0.7	82	0	3.6	2.36	94.4	0.6
03/03/2005	4.1	-0.2	80	7.1	9.4	2.57	60.8	0.5
04/03/2005	5.8	1.4	67	4.4	7.4	2.52	231.1	1.1
05/03/2005	5.4	1.1	69	2.6	6.2	2.59	223.8	1.2
06/03/2005	6.5	-1.7	71	3.1	6.7	2.69	67.1	0.8
07/03/2005	7.2	1.2	73	0	3.5	2.59	102.8	0.6
08/03/2005	6.8	2.8	72	0	4.3	2.7	138.7	0.9
09/03/2005	7.7	2.7	75	0.1	4.6	2.78	87	0.8
10/03/2005	8.7	2.5	77	2.4	6.5	3.07	144.1	0.9
11/03/2005	8.2	1.8	68	0.5	5	2.93	292.1	1.4
12/03/2005	7.2	0.3	57	4.8	8.7	3.28	235.6	1.7
13/03/2005	6.2	-1.6	62	5.1	9.1	3.46	125.1	1.3

14/03/2005	9.2	0.6	72	3.1	7.5	3.45	185.1	1.1
15/03/2005	11.7	5.2	78	0	2.9	2.77	285.5	0.7
16/03/2005	15	10.8	74	3.9	8.4	3.89	365.6	1.9
17/03/2005	14.9	11.5	74	0	3.8	3.02	287.5	1.7
18/03/2005	13.4	11.1	84	0	2.4	2.71	245	1.2
19/03/2005	16.1	7.8	81	5.3	10	4.54	95.9	1.5
20/03/2005	12.6	7.4	83	0	3.9	3.14	190.6	1.1
21/03/2005	10.9	6.3	82	1.3	6.6	3.81	223.3	1.5
22/03/2005	14.1	7.4	80	0	3.6	3.14	152.1	1
23/03/2005	15.4	7.9	72	3.1	8.4	4.36	118.9	1.5
24/03/2005	13.8	7.4	80	0.4	6.1	3.85	105.3	1.3
25/03/2005	14.6	7.3	77	2	7.6	4.32	93.2	1.3
26/03/2005	9	6.3	91	0	2.2	2.82	103.2	0.9
27/03/2005	7	6.1	94	0	1.6	2.67	162.9	0.6
28/03/2005	6.7	5.8	93	0	1.9	2.76	98.1	0.6
29/03/2005	6.8	6	94	0	1.9	2.78	60.1	0.6
30/03/2005	6.6	5.9	90	0	2.3	2.91	140.2	0.7
31/03/2005	8.9	5.5	85	0	6.3	4.19	99.6	1
01/04/2005	13.7	6.8	81	0	6.3	4.24	164.2	1.1
02/04/2005	15	6.2	74	2.1	8.5	4.98	114.5	1.5
03/04/2005	17	2.6	65	4.1	10.7	5.63	150.4	2
04/04/2005	12.1	5.6	65	3.9	10.5	5.55	171.9	2.1
05/04/2005	10.9	4.8	67	5.5	12.3	6.22	240.4	2.1
06/04/2005	11.7	3.1	73	4.2	11.1	5.96	303.3	2
07/04/2005	9.5	2.4	66	2.7	9.7	5.47	272.5	2.1
08/04/2005	4.4	0.7	58	3.9	11	5.9	284.7	1.9
09/04/2005	8.5	1.1	73	1.3	8.4	5.22	302.2	1.2
10/04/2005	14.2	5.4	69	5.9	13.3	6.97	236.6	1.9
11/04/2005	14.5	8	63	3.4	10.8	6.09	240.2	2.4
12/04/2005	12.5	6.4	65	7.4	15.1	7.63	165.5	2.4
13/04/2005	10.7	4.6	68	4.4	12	6.6	114.4	1.9
14/04/2005	6.8	4.5	87	0	2.4	3.12	196.7	0.8
15/04/2005	5.5	3.4	86	0	1.9	2.95	345.2	0.8
16/04/2005	8.6	2.6	77	0.7	8.3	5.44	200.3	1.3
17/04/2005	10.1	0.9	80	3.7	11.7	6.82	208.2	1.4
18/04/2005	10	3.2	86	0	5.2	4.31	248.3	0.9
19/04/2005	9.6	1.1	79	5.3	13.6	7.63	123	1.6
20/04/2005	8.8	4.7	77	6	14.5	8	213.4	1.7
21/04/2005	10.6	0.7	77	8.4	17.3	9.18	76.8	1.9
22/04/2005	11	1.8	74	8	16.9	9.05	143.3	2
23/04/2005	8.6	4.6	70	5.6	14.3	8	180.5	2
24/04/2005	10	5.9	71	7.8	16.9	9.1	127.8	2.1
25/04/2005	10.5	5.6	80	3.6	12.3	7.39	139.6	1.8
26/04/2005	9.4	5.7	90	0	3.3	3.62	123.8	0.8
27/04/2005	13.6	7.3	71	5.8	14.9	8.46	120	2.1
28/04/2005	15.2	6.7	74	0	6.9	5.21	326.3	2.1
29/04/2005	16.3	7.4	61	9.8	19.7	10.39	172.9	3.2
30/04/2005	14	7.8	75	1	9.7	6.46	98.8	1.8
01/05/2005	18.5	8.1	83	0	7.2	5.41	150.9	1.9
02/05/2005	18.9	10	73	5	14.5	8.6	130.6	2.7
03/05/2005	15.5	8.8	81	2.2	11.3	7.3	108.2	2
04/05/2005	10.2	7.4	67	7.1	17	9.61	186.9	2.7
05/05/2005	13.4	7.4	74	2.3	11.6	7.41	296.7	2
06/05/2005	12.6	6	69	6.7	16.7	9.59	249.9	2.7
07/05/2005	11.5	4.1	70	4.4	14.2	8.49	156.7	2.4

08/05/2005	10.6	3.4	70	4.4	14.3	8.58	136.4	2.1
09/05/2005	9.8	3.2	65	5.3	15.3	9.04	143.1	2.2
10/05/2005	9.7	2.8	65	4.5	14.5	8.72	132.6	2.1
11/05/2005	14.5	1.2	59	9.3	20.2	11.15	66.3	2.5
12/05/2005	14.3	3	60	9.4	20.4	11.28	98.2	2.8
13/05/2005	10.8	1.8	77	9	20.1	11.52	158.4	2.2
14/05/2005	10.8	6.1	74	7.1	17.8	10.39	139.9	2.2
15/05/2005	17.4	5.8	66	3.6	13.8	8.54	92.3	2.3
16/05/2005	10.6	4.6	64	0.6	10.2	6.93	177.6	2.3
17/05/2005	9.8	2	64	5.4	16	9.51	103.5	2.3
18/05/2005	11.3	2.4	73	1.5	11.4	7.6	71.3	1.5
19/05/2005	18.5	7.1	70	4.2	14.6	9.08	163.2	2.5
20/05/2005	17.6	9.6	72	5.8	16.6	10.12	210.6	2.9
21/05/2005	15.4	7.4	67	3.2	13.6	8.63	102.6	2.6
22/05/2005	16.2	8.5	72	6.3	17.4	10.4	98.9	2.8
23/05/2005	13.1	7.7	68	3.8	14.4	9.02	208.8	2.7
24/05/2005	13.6	8	83	0	7.7	5.9	68	1.4
25/05/2005	19	11.5	74	0	9.3	6.7	167.9	2.1
26/05/2005	18.9	12.8	60	6.6	17.9	10.69	165.5	3.6
27/05/2005	13	9.9	81	0	8.9	6.54	131.9	2
28/05/2005	18	10.1	68	5.5	16.7	10.2	272.6	3.4
29/05/2005	14.6	7	63	6.2	17.6	10.59	159.6	3.1
30/05/2005	12.9	5.2	73	5.7	16.9	10.39	80.2	2.5
31/05/2005	11.6	6.3	69	7.7	19.4	11.51	96.1	2.6
01/06/2005	15.3	5.8	84	0	5	4.64	105.3	1
02/06/2005	19.4	12	78	0	9.6	6.93	106.3	1.8
03/06/2005	18.7	11	68	5.4	16.7	10.38	112.4	3.1
04/06/2005	16.9	8.6	76	6.1	17.6	10.93	115.1	2.9
05/06/2005	11.9	9.3	79	0	8.6	6.44	74.2	1.8
06/06/2005	11.5	4.9	64	7.2	19	11.37	108.7	2.7
07/06/2005	17.1	3.3	67	9.6	22	12.84	80	3
08/06/2005	21	6.8	66	8.1	20.1	12.05	53.5	2.9
09/06/2005	21	9.4	73	4.2	15.4	9.89	101.6	2.8
10/06/2005	13.1	9.6	65	10.9	23.5	13.59	110	3.6
11/06/2005	14.2	8.5	69	2	12.8	8.46	69.6	2.2
12/06/2005	11.5	6.6	78	0	7.1	5.73	69.2	1.5
13/06/2005	12.3	6.7	82	0	6.6	5.47	66.7	1.2
14/06/2005	15.2	8.2	74	1.8	12.6	8.45	98.5	2
15/06/2005	16.9	10	73	0	9.8	7.08	210.4	2.1
16/06/2005	18.4	12.1	82	0	7.5	5.9	84.6	1.5
17/06/2005	20.5	15.3	80	0	10	7.21	63.5	1.8
18/06/2005	23.2	17	79	3.3	14.4	9.58	93	2.8
19/06/2005	27.4	17.1	80	3.8	15	9.99	145.9	3.4
20/06/2005	21.9	11.6	68	9.6	22.1	13.27	90.4	4.2
21/06/2005	19.2	9.9	74	3.4	14.5	9.47	82.7	2.7
22/06/2005	24.2	13.2	63	7.3	19.2	11.76	134.2	3.7
23/06/2005	24.3	14.9	59	11.5	24.3	14.17	82.7	4.4
24/06/2005	18.5	12.6	83	0	7.5	5.91	77.8	2.1
25/06/2005	15.7	11.6	73	8.6	20.8	12.51	121.4	3.4
26/06/2005	21.7	10.4	65	6.2	17.9	10.99	47.4	2.9
27/06/2005	21.2	9	70	6.6	18.4	11.3	76.5	3.3
28/06/2005	21.3	10.8	70	10.8	23.4	13.85	149.6	3.9
29/06/2005	15.4	11.9	85	0	5.2	4.74	137.5	1.6
30/06/2005	19.4	13.3	88	0	10	7.23	67.7	1.8
01/07/2005	20	10.4	69	7	18.8	11.5	67.7	3.2

02/07/2005	23.7	9.3	73	4.7	15.9	10.17	119.8	3.1
03/07/2005	19.5	12	58	5.8	17.2	10.54	116.3	3.4
04/07/2005	14.8	11.1	78	0	6.4	5.33	68.9	1.7
05/07/2005	16	10.9	77	0.5	10.9	7.56	131.4	2.1
06/07/2005	13.8	11.2	91	0	3.8	4	141.2	1
07/07/2005	17.7	10.2	78	5.4	16.7	10.47	118.5	2.6
08/07/2005	18.4	8.4	76	9.4	21.5	12.8	75.5	3.3
09/07/2005	23.1	8.2	72	9	20.9	12.56	48.9	3.2
10/07/2005	24.9	16.4	78	6.4	17.7	11.17	63.5	3
11/07/2005	24	15.1	77	10.2	22.3	13.53	67.7	4
12/07/2005	25.9	13.5	76	8.2	19.9	12.31	58.4	3.5
13/07/2005	22.6	13.8	77	7.1	18.5	11.42	64.2	3.5
14/07/2005	20.9	14.5	80	0	7.3	5.72	56.4	1.8
15/07/2005	18.2	12.2	72	3.6	14.2	9.07	86.4	2.8
16/07/2005	21.1	12.7	68	10.2	22.1	12.87	99.2	3.7
17/07/2005	25.3	14.9	77	3	13.4	8.83	64.4	2.5
18/07/2005	20.3	12.4	69	4.8	15.5	9.72	81.4	3.1
19/07/2005	16.7	11.3	73	2.8	13.1	8.48	105.1	2.6
20/07/2005	19.6	11.6	66	5.1	15.7	9.62	205.1	3.3
21/07/2005	20.4	12.6	74	0.3	10	6.99	159.4	2.5
22/07/2005	15.8	11.2	74	5.2	15.8	9.71	106.2	2.8
23/07/2005	14.7	10	73	0.8	10.4	7.14	58.5	1.9
24/07/2005	14.4	8.4	79	0.2	9.7	6.8	79.7	1.8
25/07/2005	14.8	10.8	73	1.5	11.2	7.42	94.9	2
26/07/2005	15.9	10.5	72	0	8.5	6.16	54.3	1.7
27/07/2005	17.7	10.3	73	0	8.8	6.29	79.2	1.8
28/07/2005	14.1	9.7	86	0	4.2	4.1	133.5	1.2
29/07/2005	15.1	12.2	96	0	3.2	3.53	168.5	0.7
30/07/2005	14.4	10.9	95	0	2.6	3.3	161.2	0.8
31/07/2005	16	10.1	77	2.1	11.6	7.51	127	2.2
01/08/2005	16	11.6	75	2.2	11.6	7.49	52.1	2
02/08/2005	21.4	8.9	71	5.5	15.3	9.18	65.4	2.6
03/08/2005	18.8	9.5	72	6.1	16	9.49	122.1	2.8
04/08/2005	18.9	12	73	4.2	13.7	8.39	103.4	2.5
05/08/2005	17.7	11.2	74	5.1	14.7	8.83	109.1	2.6
06/08/2005	16.5	10.2	74	1.6	10.6	6.92	86	2.1
07/08/2005	16.5	7.9	73	0.6	9.4	6.38	129	2
08/08/2005	16.3	8.7	78	5.6	15.1	8.85	72.5	2.3
09/08/2005	15.5	9.1	86	0	8.2	5.81	36.6	1.4
10/08/2005	21.8	12.1	88	0.3	8.9	6.18	52.9	1.4
11/08/2005	19.1	13.5	87	0	7.6	5.54	59.8	1.7
12/08/2005	16.8	12.4	88	0	7.8	5.61	47.3	1.7
13/08/2005	20.8	11.4	79	3.1	11.7	7.26	124.6	2.4
14/08/2005	16.4	11.3	80	0.3	8.6	5.89	129.8	1.9
15/08/2005	19.3	9.5	81	6.1	14.9	8.71	116.8	2.2
16/08/2005	22.5	15.2	79	1.2	9.4	6.24	82.4	1.7
17/08/2005	24	13.9	69	7.4	16.1	9.07	106.3	3.1
18/08/2005	24.2	14.1	70	7.7	16.4	9.07	72.1	3
19/08/2005	19.7	12.3	72	7.4	16	8.71	77	3
20/08/2005	19.4	10.3	74	8.2	16.8	9.01	127.9	2.9
21/08/2005	24.3	9.2	70	8.9	17.3	9.19	82.8	2.8
22/08/2005	17.5	11.3	80	0.1	7.8	5.37	83.2	1.6
23/08/2005	19.7	8.6	71	2.3	10.1	6.2	103.8	2
24/08/2005	18.1	9.5	67	4.9	12.7	7.16	168.4	2.3
25/08/2005	16.9	8.4	73	5.8	13.6	7.36	71.7	2.3

26/08/2005	15.5	8.9	68	4.8	12.5	6.87	93.7	2
27/08/2005	16.8	11.7	71	1.8	9.1	5.66	57.6	1.5
28/08/2005	19.3	12	76	0	5.6	4.32	206.5	1.5
29/08/2005	19.1	8.1	66	7.5	14.9	7.78	151.8	2.3
30/08/2005	23	5.6	74	6.7	14	7.39	97	2.3
31/08/2005	21.6	14.8	82	3	10	6.01	127.2	1.7
01/09/2005	19.3	9.1	76	6.3	13.3	7.13	75.3	2.2
02/09/2005	19.8	8.2	73	6.4	13.2	6.81	58.9	2.1
03/09/2005	19.2	7.9	80	3.8	10.5	5.98	149.7	1.8
04/09/2005	21.5	13.5	84	7	13.7	7.2	131.1	2
05/09/2005	22.7	11.2	85	4.7	11.3	6.23	57.8	2
06/09/2005	22.8	12.7	75	6	12.4	6.5	57.5	1.9
07/09/2005	19.2	16.6	69	0	2.5	2.99	131.8	1.6
08/09/2005	19.7	14.5	72	4.1	10.3	5.58	124.8	2.1
09/09/2005	14.5	12	94	0	1.3	2.48	243.8	1.1
10/09/2005	14.7	11.7	92	0	3.9	3.35	128	1
11/09/2005	17.1	9.9	84	6.7	12.4	6.04	62.6	1.7
12/09/2005	21.3	9.7	80	7.1	12.7	6.09	37.9	1.6
13/09/2005	20.7	12.1	73	2	7.7	4.49	157.8	1.8
14/09/2005	18.2	12.6	70	7	12.3	5.68	224	2.4
15/09/2005	12.7	8.6	81	0	3.4	3.11	101.7	1.2
16/09/2005	12.3	5.8	71	4.2	9.5	4.59	127.3	1.6
17/09/2005	13.3	4.6	80	2.1	7.4	4.14	106.8	1
18/09/2005	17.7	12.4	77	4.4	9.5	4.62	133.1	1.3
19/09/2005	17.5	10.8	71	5.7	10.5	4.74	147.1	1.9
20/09/2005	18.2	8	73	6.5	11.1	4.81	60.7	1.5
21/09/2005	18.4	7	75	3.4	8.2	4.09	101.6	1.4
22/09/2005	20.9	13.8	68	7.2	11.4	4.68	145.1	1.8
23/09/2005	17.8	6.5	75	0.6	5.6	3.38	197	1.8
24/09/2005	13.6	3.3	69	5.3	9.5	3.92	98.2	1.5
25/09/2005	17.8	8.8	75	2.8	7.3	3.56	101.5	1.1
26/09/2005	17.1	8.2	78	0	3.5	2.84	141	1.2
27/09/2005	16.4	9.4	64	5.7	9.5	3.64	121.2	1.6
28/09/2005	14.3	7.4	74	1.7	6.1	3.12	171.3	1.6
29/09/2005	14.6	8.5	71	6.9	10.2	3.51	171.1	1.7
30/09/2005	20.6	9.7	81	1.6	5.7	3.06	161.5	1.3
01/10/2005	14	8.4	71	6.1	9.2	3.26	156.5	1.7
02/10/2005	14.3	6.7	74	3.6	7.2	2.96	87.9	1.1
03/10/2005	16	10.8	74	3.1	6.6	2.84	46.9	0.8
04/10/2005	14	10.3	68	0	3.5	2.52	28.2	0.9
05/10/2005	15.5	8.6	77	1.1	5	2.59	22.7	0.7
06/10/2005	13.6	5.3	89	0	2.3	2.33	69.7	0.7
07/10/2005	15.7	12.9	83	0	2.6	2.32	166.9	0.7
08/10/2005	14.8	6.4	77	0	1.9	2.27	108.1	1
09/10/2005	13.3	3.9	73	0	3.2	2.29	134.2	1
10/10/2005	18.8	9.3	72	2.5	5.5	2.3	269.6	1.3
11/10/2005	17.2	11.4	87	0	2	2.16	136.7	1
12/10/2005	12.3	10.3	95	0	1.1	2.08	51.7	0.7
13/10/2005	12.5	5.5	90	0	2.8	2.12	36.4	0.5
14/10/2005	12.1	2.9	80	2.5	5.1	1.93	68.4	0.6
15/10/2005	14.2	11.2	89	0	2.5	2.03	160	0.3
16/10/2005	14.4	10.9	86	1	4	1.94	195	0.9
17/10/2005	14.2	11.3	85	0.8	3.8	1.87	214.5	0.9
18/10/2005	12.5	11.3	79	0	3	1.85	249.2	1.3
19/10/2005	14.2	10.4	85	0	2.7	1.85	177	0.9

20/10/2005	13.9	7.7	79	3	5	1.4	83.5	0.8
21/10/2005	11.9	8.9	89	0	1	1.98	134	0.6
22/10/2005	11.1	7.2	90	0	1.8	1.84	63.2	0.5
23/10/2005	9.9	6.3	91	0	1.6	1.85	15.6	0.5
24/10/2005	16	6.9	90	0	1.1	1.86	243.2	0.4
25/10/2005	14.1	10.3	78	1.8	3.9	1.21	76.8	0.6
26/10/2005	15.1	11.1	80	0	2.6	1.5	126.6	0.7
27/10/2005	18.2	14.2	84	4.3	5.1	0.92	294.2	1
28/10/2005	17.1	12.3	79	0.1	2.6	1.37	293.5	1.5
29/10/2005	15.7	10	81	2.7	4.1	0.89	273.4	1
30/10/2005	17	13.7	79	0	1.9	1.48	274.9	1.1
31/10/2005	13.6	9.4	80	1	3	1.05	202.7	1
01/11/2005	12.4	7.6	76	4.6	4.8	0.03	116.7	0.7
02/11/2005	15.9	7.2	87	0	2	1.3	186.2	0.5
03/11/2005	15.1	11.9	86	0	1.5	1.46	222.7	0.7
04/11/2005	12.6	7.7	86	0	1.2	1.6	118.5	0.8
05/11/2005	12.5	5.7	84	0.7	2.5	0.85	71.1	0.6
06/11/2005	14.9	8.9	78	0.6	2.4	0.83	184.2	0.7
07/11/2005	11.8	6.5	72	3.1	3.6	-0.04	221.3	1.1
08/11/2005	12.4	6.1	83	0	0.6	1.86	109.3	0.7
09/11/2005	9.4	5.1	78	3.7	3.8	-0.39	96	0.5
10/11/2005	14.8	8.6	70	1.2	2.5	0.43	140	0.6
11/11/2005	14.3	6.5	74	0	1.7	1.01	226.3	1.1
12/11/2005	10.1	5.9	71	3.3	3.4	-0.48	116.6	0.7
13/11/2005	7.4	2.9	71	3.4	3.4	-0.63	60.3	0.4
14/11/2005	12.6	6	76	0	1.7	0.86	214.1	0.6
15/11/2005	12.5	4.2	72	2.8	3	-0.5	126.6	0.7
16/11/2005	5.5	0.6	72	1.9	2.6	-0.17	159.5	0.8
17/11/2005	5.3	-1.2	72	3.2	3	-0.82	57.9	0.3
18/11/2005	6.3	-1.9	79	2.9	2.9	-0.73	16.7	0
19/11/2005	5.3	-2.7	80	3	2.9	-0.72	48.6	0.1
20/11/2005	6	2.4	85	2.8	2.8	-0.68	93.1	0
21/11/2005	5.8	-0.3	90	1.4	2.1	-0.03	45.6	0.1
22/11/2005	2.1	-2.5	91	0	1.4	0.7	19.2	0.3
23/11/2005	8.1	-0.9	89	2.6	2.5	-0.74	125.5	0.2
24/11/2005	9.5	-0.1	68	1.3	2	-0.17	282.8	0.9
25/11/2005	6.6	-0.7	71	1.7	2.1	-0.45	193.4	0.8
26/11/2005	7.4	3.7	74	0.1	1.5	0.39	136.6	0.5
27/11/2005	4.5	2.2	86	0	0.9	1.07	141.3	0.5
28/11/2005	3.8	0.5	82	0	1	0.87	162.5	0.6
29/11/2005	2.9	-1.4	75	1.5	1.9	-0.45	49.7	0.2
30/11/2005	5.3	-2.1	84	0	1.1	0.67	47.7	0.1
01/12/2005	9	3.7	85	0	0.9	1	273.1	0.3
02/12/2005	8.6	6.5	84	0	0.5	1.54	308	0.8
03/12/2005	8.4	5.7	87	0	0.4	1.67	146	0.6
04/12/2005	7.4	4.6	85	0	1.2	0.43	22.5	0.2
05/12/2005	6.6	2.5	89	0.8	1.5	-0.09	14.9	0.1
06/12/2005	7.2	2.8	84	0.9	1.6	-0.19	87.6	0.1
07/12/2005	5.9	0.3	81	1.5	1.7	-0.57	41.8	0.2
08/12/2005	7.2	-1.3	84	0.6	1.4	-0.05	4.5	0
09/12/2005	7.2	-2.2	86	0	0.9	0.78	65.6	0.3
10/12/2005	12.7	7	80	0.5	1.4	0.02	92.7	-0.3
11/12/2005	12.3	7.2	76	1.7	1.8	-0.68	157.2	0.4
12/12/2005	7.3	0.3	76	1.5	1.7	-0.66	48.3	0.5
13/12/2005	7.6	-0.1	81	1.1	1.5	-0.39	135.8	0.2

14/12/2005	7.9	4.6	77	0.5	1.3	-0.04	92.2	0.1
15/12/2005	10.3	7.2	75	0.6	1.4	-0.09	267.9	0.8
16/12/2005	10.4	0.8	60	1.6	1.7	-0.84	282.6	1.4
17/12/2005	2.5	-1.8	60	1.4	1.6	-0.72	183.7	0.9
18/12/2005	7.3	-2.9	74	0.3	1.3	0.01	94.1	0.3
19/12/2005	7.3	2	77	1.2	1.6	-0.51	67.8	-0.1
20/12/2005	8.6	2.5	79	0	1	0.55	29.6	0.1
21/12/2005	10.2	5.5	76	0	0.9	0.75	140.7	0.5
22/12/2005	10.1	5.3	80	0	0.5	1.44	77.6	0.6
23/12/2005	11.2	8.3	77	1.2	1.5	-0.43	277.5	0.8
24/12/2005	8.8	1.7	80	1.3	1.6	-0.5	103.9	0.5
25/12/2005	5.6	2.7	87	0	0.9	0.74	19.2	0.2
26/12/2005	5.6	3.8	79	0	1.1	0.44	92.4	0.4
27/12/2005	4.1	1.4	68	0	0.8	0.84	139.9	0.8
28/12/2005	1.7	-3.9	87	0.8	1.5	-0.22	19.9	0.2
29/12/2005	-2	-7	85	0	1.1	0.47	47.5	0.2
30/12/2005	3.1	-2.9	86	0	0.5	1.49	220.7	0.2
31/12/2005	6.6	2.1	84	0	0.8	0.98	34.5	0
01/01/2006	6.7	1.9	83	0	0.9	0.89	63.1	0.3
02/01/2006	6.8	0.8	83	0	1.2	0.45	34	0.2
03/01/2006	9.3	0.2	82	0.8	1.5	-0.08	63.9	0
04/01/2006	5.7	0.1	88	0.6	1.5	0.03	14.3	0.2
05/01/2006	5.5	2.4	75	0	0.5	1.59	99.4	0.6
06/01/2006	3.5	1.7	89	0	0.4	1.63	12.8	0.4
07/01/2006	4.3	2.5	89	0	0.6	1.38	16.3	0.2
08/01/2006	2.4	-0.1	84	0	0.3	1.87	12.7	0.5
09/01/2006	6.3	-1.5	83	0	1.2	0.57	172	0.3
10/01/2006	12.4	6.4	76	0	0.9	1.09	327.2	0.8
11/01/2006	11.4	3.9	73	2	2.2	-0.64	204.3	1
12/01/2006	7.5	4.4	73	0	1.4	0.47	296.4	1.1
13/01/2006	7.5	4.7	79	1.2	1.9	-0.13	449.9	0.9
14/01/2006	9	0	81	0.1	1.5	0.48	120.4	0.3
15/01/2006	7	0.1	84	0	1.3	0.79	252	0.5
16/01/2006	7.6	5.4	81	0	1.1	1.01	215	0.6
17/01/2006	6.5	3.6	80	1.3	2.1	-0.04	89.4	0.4
18/01/2006	10.5	5.2	88	0	1	1.19	51.9	0.1
19/01/2006	12.2	9.7	80	0	0.9	1.37	164.6	0.6
20/01/2006	11.3	5.3	71	2.2	2.6	-0.41	324.8	1.6
21/01/2006	8.7	1.3	78	1.7	2.4	-0.08	89.7	0.6
22/01/2006	4.4	0.1	88	1.1	2.2	0.28	113.1	0.3
23/01/2006	3.1	-0.3	84	0.5	2	0.53	169.1	0.3
24/01/2006	5.6	-1.4	82	1.7	2.6	0.1	45.3	0.1
25/01/2006	6	4.1	74	0.1	1.9	0.7	85.9	0.3
26/01/2006	6.1	0.1	69	1.4	2.5	0.24	40.6	0.3
27/01/2006	5.5	2.9	81	0	1.8	0.92	86.3	0.3
28/01/2006	7.2	2.5	78	0	1.9	0.89	26.7	0.2
29/01/2006	5.3	-2.1	73	2.5	3.2	0	27.7	0.3
30/01/2006	2.6	-5.2	84	3	3.5	-0.07	18.2	0.2
31/01/2006	0.6	-5	87	0.6	2.4	0.79	51.6	0.2
01/02/2006	2	-0.1	83	0	1.1	1.6	31.4	0.2
02/02/2006	3.3	1.7	82	0	1.1	1.67	9.6	0.2
03/02/2006	5.2	2.9	82	0	2	1.22	29.8	0.2
04/02/2006	7.6	3.1	85	3.2	4	0.26	81.5	0.2
05/02/2006	7.4	4	82	0	1.6	1.52	73	0.5
06/02/2006	8.8	5.2	78	0.2	2.5	1.13	238.5	0.7

07/02/2006	9.9	5.3	74	0	1.5	1.62	280.5	1
08/02/2006	7.1	1.3	67	4.2	4.8	0.15	171	1
09/02/2006	4.3	0	55	2	3.7	0.72	215.2	1.2
10/02/2006	5.4	-0.8	67	2	3.8	0.84	38.3	0.4
11/02/2006	6.7	-2.1	74	0	2.4	1.46	119.1	0.6
12/02/2006	9.2	5.8	84	0	1.7	1.76	62.8	0.2
13/02/2006	10.7	5.8	85	0	2.3	1.63	84.5	0.5
14/02/2006	9.8	6.6	78	0.1	2.9	1.51	239.7	1
15/02/2006	10.1	4.4	70	3.2	4.9	1.02	228.1	1.2
16/02/2006	7.4	2.7	72	1.2	3.7	1.43	188.6	1
17/02/2006	8.1	1.1	79	0.8	3.5	1.58	66.7	0.5
18/02/2006	7.5	-1	82	4.2	5.8	1.21	45.8	0.5
19/02/2006	7.9	0	83	0.7	3.6	1.71	55.5	0.4
20/02/2006	7.5	3	75	2.9	5.1	1.51	157.8	0.8
21/02/2006	6.7	3.4	70	2.6	5	1.58	206.7	1.1
22/02/2006	4.6	3.2	60	0	2.2	2.08	183.9	1.2
23/02/2006	6.8	2.3	84	0	1.5	2.13	157	0.5
24/02/2006	6.6	3.2	68	0	2.4	2.13	350	1.5
25/02/2006	6	3.8	64	0	3.1	2.11	254.1	1.3
26/02/2006	5.2	2.5	69	0	3	2.17	173.3	1
27/02/2006	4.8	1.8	76	0	3	2.22	141	0.8
28/02/2006	2.3	-0.8	58	3.1	6	2.07	266.3	1.3
01/03/2006	3.2	-1.8	58	1.6	5	2.21	184.5	1.2
02/03/2006	2.9	-3.6	63	3.7	6.7	2.26	77.8	0.8
03/03/2006	3.3	-4.7	64	5.8	8.4	2.37	94.4	0.8
04/03/2006	3.9	-3	65	5.9	8.6	2.49	144.4	0.9
05/03/2006	5.8	-1.1	58	7	9.6	2.49	148.3	1.1
06/03/2006	5.5	-1.9	60	6.8	9.5	2.63	86.4	1
07/03/2006	4.2	-0.6	78	0	3.4	2.59	185.2	0.6
08/03/2006	10.4	3.7	89	0	3.9	2.69	42.6	0.3
09/03/2006	7.9	4.2	89	0	3.3	2.65	147.8	0.7
10/03/2006	5.6	3.1	87	0	1.3	2.43	141.5	0.7
11/03/2006	3	-0.2	69	0	3.2	2.72	158	1
12/03/2006	1.3	-2.2	73	0	3	2.73	379.7	1.1
13/03/2006	3	0.3	65	0	3.8	2.88	391.7	1.3
14/03/2006	3.8	-0.3	85	0	3.2	2.81	240.2	0.6
15/03/2006	4.4	1.2	71	0	3.8	2.96	251.9	1
16/03/2006	3.7	0.7	75	0	4.4	3.11	216.6	0.9
17/03/2006	4.6	3.3	66	0	3.4	2.96	231.8	1.2
18/03/2006	6	2.5	72	0	2.8	2.87	116.4	0.8
19/03/2006	7.2	4	80	0	4.6	3.25	82.9	0.8
20/03/2006	5.7	2.7	71	0.5	5.8	3.53	158.6	1.2
21/03/2006	3.5	-1.6	66	0	5.2	3.46	92.9	1
22/03/2006	5.7	-3.1	61	6	11	4.63	59.6	1.1
23/03/2006	6.8	-1.2	63	6.2	11.3	4.83	188.7	1.4
24/03/2006	5.6	3.3	83	0	1.9	2.77	315.2	0.8
25/03/2006	13.5	5.6	84	1.5	7.2	4.2	116.7	0.9
26/03/2006	14.3	10.2	79	0	5.2	3.69	210.3	1.3
27/03/2006	14.3	9.9	79	0	4.3	3.47	198.8	1.4
28/03/2006	11.4	4.2	75	2.5	8.4	4.68	236.9	1.6
29/03/2006	11	2.1	58	7.9	13.7	5.87	148.5	2
30/03/2006	10.5	6.3	88	0	4.2	3.51	146.5	0.8
31/03/2006	12.3	5.5	72	2.7	9	4.9	117.8	1.7
01/04/2006	11.2	5.5	75	3.2	9.5	5.2	139.5	1.5
02/04/2006	8.8	2	81	0	5.2	3.93	90.2	1

03/04/2006	7.7	1.7	74	4.8	11.4	5.83	141.9	1.5
04/04/2006	6	0.2	58	6	12.7	6.12	139.7	1.7
05/04/2006	9.5	-0.8	64	5.9	12.6	6.28	183.9	1.7
06/04/2006	10	4.4	65	3.6	10.4	5.68	263.6	1.8
07/04/2006	9.5	2	66	0	6.9	4.59	172	1.6
08/04/2006	6.8	1.4	73	2.1	9.1	5.37	155.2	1.5
09/04/2006	6.8	0.8	61	4.1	11.3	6.07	161.1	1.7
10/04/2006	8.9	-0.2	57	7.8	15.3	7.35	103.8	1.8
11/04/2006	12.1	4.7	67	2.5	9.8	5.74	252.1	1.9
12/04/2006	11.3	4.7	72	3.2	10.7	6.15	218.5	1.8
13/04/2006	11.6	5.9	61	7.9	15.7	7.84	380.4	2.8
14/04/2006	12.7	5.2	64	7.5	15.5	7.82	211.6	2.6
15/04/2006	14.1	2.7	66	6.1	14	7.49	125.8	2
16/04/2006	12.8	7.4	60	7.9	16.1	8.13	208.8	2.7
17/04/2006	12.1	4.9	58	8.2	16.5	8.33	243.8	2.9
18/04/2006	11.9	3.9	61	9.5	18.1	9.03	158.4	2.5
19/04/2006	11	4	72	4.6	12.9	7.26	75.1	1.8
20/04/2006	12.4	3.2	76	2.3	10.4	6.4	96.1	1.6
21/04/2006	8.2	6.4	88	0	3.7	3.73	69.2	0.9
22/04/2006	15.4	4.3	70	4.6	13.1	7.55	167.5	2
23/04/2006	12.1	4.2	58	10	19.2	9.78	131.4	2.6
24/04/2006	14.2	3.6	66	7.2	16.2	8.84	266.2	2.5
25/04/2006	14.7	9.5	63	5.2	14.1	8.04	209.4	2.5
26/04/2006	14.7	6.1	58	5.7	14.8	8.27	165.9	2.7
27/04/2006	15	3.3	64	6.8	16.1	8.86	104.9	2.5
28/04/2006	11	5.3	67	1.8	10.5	6.67	101.7	1.8
29/04/2006	10.4	4.4	67	5.7	15	8.52	112.4	2.1
30/04/2006	8.7	2.9	75	0.8	9.5	6.34	104.3	1.5
01/05/2006	10.5	3.7	78	0	7.6	5.54	109.9	1.2
02/05/2006	13.8	2.2	69	0.5	9.3	6.3	313.7	2
03/05/2006	18.9	7.9	56	10.2	20.5	10.86	206.8	3.5
04/05/2006	16.6	4.9	74	6.1	15.9	9.3	197.7	2.6
05/05/2006	18.8	7.4	64	10.3	20.8	11.36	80.9	2.9
06/05/2006	15.3	5.1	79	2.4	11.8	7.56	115	2
07/05/2006	13.5	9.5	90	0	7.5	5.61	79	1.3
08/05/2006	14.1	9.4	76	8	18.5	10.59	200.1	2.8
09/05/2006	13.2	6	78	8.9	19.6	11.21	115.3	2.6
10/05/2006	16	3.4	69	10.5	21.5	11.85	74.8	2.9
11/05/2006	22.4	4.7	67	9.4	20.3	11.31	66.5	3.1
12/05/2006	15.7	7.3	84	0	8.1	5.96	87.6	2
13/05/2006	8.4	3	71	0	6.5	5.24	102.5	1.5
14/05/2006	10	0.4	81	0	8.3	6.08	126.1	1.1
15/05/2006	14.4	8.6	92	0	6.4	5.22	100	0.8
16/05/2006	18.2	9.1	86	2.3	12.2	8	49.2	2
17/05/2006	17.9	11	76	2.2	12.2	8.01	182.5	2.4
18/05/2006	17.6	11.5	60	7.7	18.8	10.87	266.3	3.9
19/05/2006	13.4	7.4	76	1.8	11.9	7.86	141.1	2.1
20/05/2006	10.6	7.5	84	0	5	4.59	103.1	1.2
21/05/2006	13.7	6.1	76	3.5	14	8.81	128.6	2.3
22/05/2006	8.1	6	81	0	5.9	5.03	169.9	1.4
23/05/2006	12.7	3.7	64	7.6	18.9	11.02	146.8	2.7
24/05/2006	12.3	5.7	64	8.6	20.2	11.64	153.8	2.9
25/05/2006	13.7	4	64	8.2	19.8	11.5	117	2.8
26/05/2006	14.1	4.9	84	0	5.5	4.88	81.2	1.2
27/05/2006	16.4	9.7	72	2.7	13.2	8.59	163.6	2.4

28/05/2006	15.6	6.9	62	8.9	20.7	12.02	227.2	3.5
29/05/2006	10.3	4.8	67	5.2	16.3	9.99	142.5	2.6
30/05/2006	11.6	4.5	62	6.3	17.7	10.57	182.3	2.7
31/05/2006	10.8	3.7	64	9.6	21.8	12.52	99.8	2.8
01/06/2006	16.7	6.9	75	1.9	12.4	8.29	97.6	1.9
02/06/2006	20.1	7.3	66	10.3	22.6	13.16	128.2	3.6
03/06/2006	18.9	8.5	68	6.3	17.8	10.82	100.1	3.2
04/06/2006	17.3	8.7	77	3.5	14.4	9.29	63.2	2.5
05/06/2006	15.1	10.1	77	5.1	16.4	10.27	84.6	2.7
06/06/2006	20.9	9.7	67	10.3	22.7	13.39	80.2	3.4
07/06/2006	17.5	10	75	10.8	23.4	13.85	103	3.5
08/06/2006	23.6	7.6	73	10.2	22.7	13.52	59.8	3.6
09/06/2006	20.8	11.4	77	11	23.6	14.07	123.9	3.9
10/06/2006	16.6	9.5	81	11.1	23.8	14.22	189.2	3.4
11/06/2006	26.5	10.8	69	6.8	18.5	11.55	69.4	3
12/06/2006	24.1	13.8	69	2.6	13.5	8.96	113.9	3.2
13/06/2006	19	12.2	65	5.6	17.1	10.64	63.9	3.3
14/06/2006	16.6	10.7	72	9.4	21.8	13	88	3.5
15/06/2006	19.5	7.5	72	7.1	19	11.65	79.1	3.1
16/06/2006	21.1	9.8	74	3.8	15	9.75	69.9	2.4
17/06/2006	20.7	14.3	78	2.2	13.1	8.79	55.3	2.4
18/06/2006	19	13	78	0	8.4	6.41	95.9	2.1
19/06/2006	20.3	11.6	71	6.3	18.1	11.26	108.8	3.2
20/06/2006	19.2	8.6	69	1.8	12.6	8.42	151.1	2.9
21/06/2006	16.7	10.1	61	5.8	17.4	10.65	152.8	3.4
22/06/2006	17.4	10.9	67	8.9	21.2	12.63	206.2	3.7
23/06/2006	18.1	9.1	68	4.5	15.8	9.99	67.7	2.8
24/06/2006	16.4	8.4	75	0	7.1	5.73	33.5	1.6
25/06/2006	12.4	11.1	92	0	4.2	4.22	99.5	1.1
26/06/2006	12.9	7.9	80	0	9.3	6.83	86.2	1.7
27/06/2006	16.2	6.3	77	2.7	13.7	8.97	57.4	2.1
28/06/2006	19.9	6.7	75	4.4	15.6	10.06	90.6	2.3
29/06/2006	23.2	12.7	64	9	21.2	12.7	126.6	3.6
30/06/2006	23	13.6	68	2.8	13.6	8.98	117.7	3.1
01/07/2006	27	11.2	68	7.1	18.9	11.56	109.2	4
02/07/2006	25.9	14.4	67	9.9	22.2	13.27	128.1	4.5
03/07/2006	20.8	13.2	83	9.1	21.2	12.99	115.5	3.8
04/07/2006	17.7	12.2	89	6.6	18.2	11.41	105.4	3.1
05/07/2006	22	11.6	82	8	19.9	12.19	71.5	3.3
06/07/2006	26.5	14.6	73	6	17.4	11	65.9	3.1
07/07/2006	20.7	14.4	64	4.2	15.2	9.64	69.7	3.3
08/07/2006	17.8	12.9	65	0	9.6	6.87	83.5	2.5
09/07/2006	20.2	13	77	2.6	13.2	8.73	196.7	2.8
10/07/2006	21.6	10.6	65	3.7	14.5	9.3	153	3
11/07/2006	19.3	12	59	7.3	18.8	11.16	106.5	3.5
12/07/2006	21.2	11.7	68	0.5	10.6	7.36	106.1	2.4
13/07/2006	17.5	8.7	65	9.3	21.1	12.22	79.1	3.5
14/07/2006	20.1	6.3	65	11.5	23.7	13.47	119.3	3.7
15/07/2006	20.4	8.1	65	11.8	24.1	13.67	121.9	3.8
16/07/2006	25.2	7.2	60	11.3	23.4	13.32	99.4	3.9
17/07/2006	28.9	12.9	49	11.3	23.3	13.05	63.3	3.9
18/07/2006	26	13.8	58	10.8	22.6	12.99	113	4.5
19/07/2006	22.9	11.6	74	11.4	23.4	13.7	183.8	4.2
20/07/2006	23.7	15.1	81	0.2	10	7.02	58.1	2.1
21/07/2006	26	14	70	7.4	18.5	11.27	57.9	3.3

22/07/2006	24.8	16	76	5.1	15.6	9.89	79.9	3.1
23/07/2006	25	14.3	65	9.2	20.5	11.93	77.4	3.9
24/07/2006	25.2	10.5	60	9.6	20.9	12.01	108.3	4
25/07/2006	25.3	14.3	62	10	21.3	12.26	157.6	4.2
26/07/2006	27.4	15.8	69	3.9	14	8.91	54	2.8
27/07/2006	27	13.6	67	6.6	17.1	10.28	63.9	3.6
28/07/2006	24	13.6	68	8.4	19.2	11.28	84.2	3.6
29/07/2006	23.9	15	72	4	13.9	8.81	123.3	2.9
30/07/2006	23.9	13.9	58	8.6	19.3	10.94	82	3.7
31/07/2006	19.8	14.4	69	1.8	11.2	7.36	130.6	2.8
01/08/2006	18.3	12	82	2.3	11.7	7.65	43.8	2.3
02/08/2006	15	12.5	90	0	2.9	3.4	199.5	1.1
03/08/2006	18.1	12.4	75	5.7	15.5	9.26	152.1	2.8
04/08/2006	21.2	12.9	73	1.9	11.1	7.24	35.5	2
05/08/2006	24.4	14.7	78	2.1	11.2	7.42	44.5	2
06/08/2006	25.1	14.2	80	2.7	11.9	7.77	68.7	2.3
07/08/2006	18.3	11.1	67	8.7	18.6	10.42	86.8	3.3
08/08/2006	19.5	9	75	3.3	12.4	7.73	58.9	2.2
09/08/2006	18.7	10.9	65	7.7	17.3	9.64	183.1	3.3
10/08/2006	18.9	11	64	4.8	13.9	8.14	162.7	3
11/08/2006	15.3	11.7	73	0	6.9	5.18	194.6	2
12/08/2006	15.4	12	76	0.6	9	6.08	194.3	2.1
13/08/2006	13.5	11.7	93	0	2.4	3.14	179.1	0.9
14/08/2006	15.7	12	83	0	6.7	5.07	115.8	1.4
15/08/2006	15.7	12.1	82	0	5.5	4.5	26.2	1.2
16/08/2006	18.4	11.3	86	0.7	8.8	5.95	40.7	1.6
17/08/2006	18	11.6	92	0	7.2	5.26	108.5	1.4
18/08/2006	15.7	13.6	97	0	3.3	3.42	79.1	0.8
19/08/2006	18.7	11.7	89	1.6	9.6	6.27	81.3	1.6
20/08/2006	19.8	13.2	89	2.3	10.3	6.54	51.1	1.8
21/08/2006	17.5	13.2	86	1.2	9.1	5.94	38.2	1.7
22/08/2006	18.2	11.6	76	4.1	12	7.05	49.1	2
23/08/2006	21.5	12.1	85	3	10.8	6.62	59.4	1.8
24/08/2006	17.9	10.4	82	3.7	11.4	6.78	56.9	2
25/08/2006	18	8.8	79	6.2	14	7.71	63.6	2.1
26/08/2006	19.1	12.9	82	2.1	9.6	5.97	46.2	1.5
27/08/2006	18.7	11.9	74	6.7	14.3	7.62	90.1	2.4
28/08/2006	17.5	10.4	73	6.3	13.8	7.28	135	2.5
29/08/2006	18.1	9.4	70	5.1	12.4	6.7	127.6	2.3
30/08/2006	18.9	10.8	68	4.4	11.6	6.33	95.7	2.2
31/08/2006	22.3	12	79	5.5	12.6	6.99	79.9	1.9
01/09/2006	20.8	13.6	71	7.3	14.3	7.49	92.4	2.3
02/09/2006	15.8	12.6	88	0	2.8	3.11	105.8	1.2
03/09/2006	19.3	12.9	80	3.9	10.6	6.03	105.9	1.8
04/09/2006	19.3	13.7	72	5	11.7	6.19	117	2.3
05/09/2006	21.8	12.8	82	0.6	7.1	4.67	78.5	1.6
06/09/2006	19.9	11.5	74	1.9	8.3	5.05	95.1	1.6
07/09/2006	16.7	8	71	3.8	10.1	5.43	94.5	2
08/09/2006	19.6	5.5	74	8.3	14.4	6.7	56.5	1.9
09/09/2006	18.3	9.7	80	7.6	13.5	6.51	118	1.9
10/09/2006	20.6	9.8	79	5.3	11.2	5.75	107.6	1.9
11/09/2006	23.9	11.3	77	6.1	11.9	6.01	45.5	1.7
12/09/2006	22.2	14.8	80	2.8	8.6	4.93	62.4	1.5
13/09/2006	22.6	15.4	79	3.5	9.1	5.05	152.4	2
14/09/2006	19.7	14.9	91	0	4.2	3.37	41	1.2

15/09/2006	18.8	11.8	84	7.4	12.6	5.85	84.6	2
16/09/2006	17.5	13.3	91	0	5.4	3.71	37.7	1
17/09/2006	21.8	13.9	84	3	8.3	4.51	25.5	1.2
18/09/2006	20.2	9.5	74	4.9	9.9	4.74	110	1.9
19/09/2006	16.4	12	67	5.2	10	4.54	100.7	1.7
20/09/2006	20.7	12.3	69	0	4.6	3.3	271.2	2.1
21/09/2006	27.5	15	68	7.5	11.8	4.91	230.7	3.2
22/09/2006	19.9	11.3	79	0	5.1	3.34	67.9	1.6
23/09/2006	18.7	10.4	92	3.1	7.7	4.02	91.5	1.3
24/09/2006	19	13.4	97	0	3.7	2.94	63.6	0.8
25/09/2006	16.7	10.6	97	0	3.8	2.93	9.5	0.9
26/09/2006	18	12.5	80	5.5	9.4	4.04	59.3	1.2
27/09/2006	17.6	12.7	80	2.3	6.6	3.44	153.4	1.3
28/09/2006	18	12.4	70	5.1	8.9	3.63	57	1.2
29/09/2006	18.3	11	79	3.5	7.4	3.39	55.9	1.2
30/09/2006	18.1	7.3	80	7.2	10.3	3.73	60	1.3

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Chute clay loam 2004 to 2005

			Waypoints		
Date	**Rzone Def (mm)**	**Mean Going**	**37**	**39**	**42**
20/04/2004	2.699997				
21/04/2004	3.599998	5.4	5.6	5.3	5.2
22/04/2004	5.599998				
23/04/2004	7.300003				
24/04/2004	9.399994				
25/04/2004	11.89999				
26/04/2004	5.165222	4.9	4.6		3.7
27/04/2004	2.665222	2.8	2.7	2.8	3
28/04/2004	3.065216				
29/04/2004	3.665215				
30/04/2004	4.665215				
01/05/2004	7.265213				
02/05/2004	9.865219				
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19/09/2005	-15.04922				
20/09/2005	-13.18649				
21/09/2005	-11.49413				
22/09/2005	-9.478401				
23/09/2005	-8.323402				
24/09/2005	-6.711395				
25/09/2005	-11.70375				
26/09/2005	-10.40879				
27/09/2005	-8.737801	7.9	7.6	7.9	8.3
28/09/2005	-12.51657	7.9	6.8	8.5	8.4
29/09/2005	-11.95316				
30/09/2005	-11.98858				

Mean going	S.E.
5.4	0.15
4.2	0.64
2.8	0.11
2.7	0.04
3.1	0.21
4.0	0.37
8.1	0.22
8.8	0.36
10.2	0.37
9.3	0.00
10.6	0.16
8.9	0.04

10.3	0.40
8.9	0.58
8.1	1.13
8.4	0.57
7.6	0.57
2.3	0.00
5.2	0.00
6.3	0.99
7.2	0.19
6.1	0.21
5.2	0.58
7.2	0.75
7.0	0.23
6.8	0.71
5.7	1.27
7.5	0.59
6.9	0.43
8.3	1.20
6.2	1.81
6.4	2.40

5.6	1.56
4.2	0.65
3.7	0.32
3.2	0.55
3.4	0.66
5.0	0.95
6.4	1.07
7.4	1.10
8.6	0.74
9.3	0.29
9.3	0.48

9.8	0.39
7.6	1.21
9.1	0.43
9.3	0.90
8.2	0.71
8.6	0.50
6.8	0.67
5.4	0.88

5.1	0.76
4.4	0.11
3.8	0.27
3.0	0.42

4.9	1.09
5.2	0.70
4.0	0.68
7.6	0.63
8.5	0.89
7.9	0.08
9.4	0.90
8.0	0.15
7.9	0.42
7.8	0.58
8.9	0.76
8.2	0.76

8.0	0.11
7.9	0.45
8.2	0.23
8.4	0.21
8.9	0.16
7.8	0.49
8.4	0.35
8.6	0.64
8.7	0.32
7.3	0.98
5.7	0.27
7.8	0.43
8.3	0.48
7.5	0.49
7.8	0.64
8.5	0.19
7.9	0.46

8.3	0.36
7.9	0.25
7.9	0.67

Irrigation Data for York Racecourse During 2006

Double entries of irrigation data on a given day represent pop-up sprinklers (first entry) and boom irri
All irrigation data is depth of water applied (mm)

Waypoint	3	12	15	18	21	27	30	33
03/06/2006		3	2	2	2	2	3	3
04/06/2006		3.5	2.5	2.5	2.5	2	4	4
05/06/2006		3.5	2.5	2.5	2.5	2.5	4	4
06/06/2006		3.5	2.5	2.5	2.5	2.5	4	4
				5	5	5		
07/06/2006		5.5	4	4	4	4	8	8
08/06/2006							4.5	4.5
				5	5	5		
09/06/2006						2.5	2.5	2.5
			5	5	5	5		
10/06/2006						2.5	2.5	2.5
11/06/2006								
12/06/2006		3	3	3	3	4	8	8
			5	5	5	5	5	
13/06/2006							2	2
14/06/2006		1.25	1.25	1.25	1.25	1.25	1.25	1.25
15/06/2006			5	5	5	5	5	
16/06/2006								
17/06/2006		2.5	2.5	2.5	2.5	2.5	2.5	2.5
18/06/2006		3	3	3	3	2		
19/06/2006								
20/06/2006								
21/06/2006								
22/06/2006								
23/06/2006								
24/06/2006								
25/06/2006								
26/06/2006								
27/06/2006								
28/06/2006		3	3	3	3	3	3.5	3.5
29/06/2006								
30/06/2006								
01/07/2006								
02/07/2006		3.5	2.5	2.5	2.5	2.5	3	3
03/07/2006		3.5	2.5	2.5	2.5	2.5	3	3
			5	5	5	5	5	
04/07/2006		6					5	5
					10	10		
05/07/2006		6	5	5	5	6	5	5
			5	5	5	5	5	
06/07/2006								
			5	5	5	5	5	
07/07/2006								
			5	5	5	5	5	
08/07/2006		5	5	5	5	5	5	
09/07/2006							6	6

10/07/2006								
11/07/2006							6	6
			5	5	5			
12/07/2006							6	6
13/07/2006							5	5
14/07/2006		1.5	1.5	1.5	1.5	1.5	2	2
15/07/2006		1.5	1.5	1.5	1.5	1.5	2	2
16/07/2006		5	4	4	4	4	6	6
17/07/2006		2.5	2	2	2	2	3	3
18/07/2006		2.5	2	2	2	2	3	3
19/07/2006		5	4	4	4	4	6	6
20/07/2006		4	3	3	3	3	3.5	3.5
		5	5	10	10	10	10	
21/07/2006	3	3	2	2	2	2.5	3.5	3.5
			5					
22/07/2006							5	5
23/07/2006								
24/07/2006								
25/07/2006								
26/07/2006								
27/07/2006								
28/07/2006		5	4	4	4	4	4	4
29/07/2006								
30/07/2006								
31/07/2006								
01/08/2006								
02/08/2006								
03/08/2006								
04/08/2006								
05/08/2006								
06/08/2006								
07/08/2006								
08/08/2006								
09/08/2006								
10/08/2006		3	2.5	2.5	2.5	2.5	3	3
11/08/2006		6	2.5	2.5	2.5	2.5	6.5	6.5
12/08/2006								
Total	3.0	99.8	120.3	130.3	140.3	141.3	181.3	136.3

gation (second entry).

45	48	51	57	69	71
3.5	3.5	3.5	3.5	2	2
3.5	3.5	3.5	3.5	2.5	2.5
3.5	3.5	3.5	3.5	2.5	2.5
3.5	3.5	3.5	3.5	2.5	2.5
2.5	2.5	2.5	2.5		
5.5	5.5	5.5	5.5	6	6
5	5	5	5		
				3.5	3.5
5	5	5	5		
				2	
				2	
5	5	6	6	9	
5	5	5	5		
				3	3
5	5	5	5		
2.5	2.5	2	2	2	2
5	5	5	5		
				4	
				2	4
4	4	4	4	3	3
3	3	3	3	3	3
3	3	3	3	3	3
5	5	5	5		
				5	5
5	5	5	5		
				5	5
5	5	5	5		
5	5	5	5		
				2	2
5	5	5	5		
				1	1
				4	2

5	5	5	5		
				4	2
5	5	5	5		
				4	2
				5	
				2	
				2	
6	6	6	6	4	4
3	3	3	3	2	2
3	3	3	3	2	2
10	10	10	5		
6	6	6	6	4	4
2	2	2.5	2.5	3	3.5
3.5	3.5	3	2.5	3	3.5
5	5	5	5	10	10
				4	4
				5	5
				2	2
				4	4
3.5	3.5	3.5	3.5	2.5	2.5
6	6	7	7	2.5	3
147.5	147.5	149.0	143.5	134.0	105.5

York Racecourse sandy clay loam waypoint 18

Date	Rzone Def (mm)	Predicted going	Actual going
01/01/2006	-11.85		
02/01/2006	-11.44765		
03/01/2006	-12.11365		
04/01/2006	-11.97507		
05/01/2006	-11.7318		
06/01/2006	-11.88372		
07/01/2006	-11.73098		
08/01/2006	-11.57353		
09/01/2006	-11.21138		
10/01/2006	-10.54457		
11/01/2006	-11.4731		
12/01/2006	-10.89701		
13/01/2006	-10.21632		
14/01/2006	-11.13105		
15/01/2006	-10.64124		
16/01/2006	-14.08219		
17/01/2006	-14.01717		
18/01/2006	-17.21074		
19/01/2006	-16.46102		
20/01/2006	-15.66386		
21/01/2006	-14.90805		
22/01/2006	-14.56235		
23/01/2006	-13.94123		
24/01/2006	-13.53046		
25/01/2006	-13.50983		
26/01/2006	-12.81135		
27/01/2006	-13.75345		
28/01/2006	-13.49798		
29/01/2006	-13.14972		
30/01/2006	-12.71242		
31/01/2006	-11.99678		
01/02/2006	-11.20051		
02/02/2006	-10.80731		
03/02/2006	-10.41632		
04/02/2006	-9.928825		
05/02/2006	-9.344889		
06/02/2006	-8.663025		
07/02/2006	-7.879856		
08/02/2006	-6.493244		
09/02/2006	-4.703262		
10/02/2006	-3.809963		
11/02/2006	-3.213419		
12/02/2006	-14.52591		
13/02/2006	-13.75055		
14/02/2006	-14.81161		
15/02/2006	-19.7089		
16/02/2006	-17.3488		
17/02/2006	-15.66757		
18/02/2006	-14.35934		
19/02/2006	-13.35798		
20/02/2006	-12.7084		
21/02/2006	-16.4438		

22/02/2006	-15.39472
23/02/2006	-15.81185
24/02/2006	-16.67768
25/02/2006	-14.7177
26/02/2006	-13.61512
27/02/2006	-17.49097
28/02/2006	-14.68513
01/03/2006	-12.45094
02/03/2006	-10.90799
03/03/2006	-9.953323
04/03/2006	-10.58369
05/03/2006	-8.800045
06/03/2006	-7.238762
07/03/2006	-10.21043
08/03/2006	-16.03309
09/03/2006	-14.51057
10/03/2006	-15.05659
11/03/2006	-12.6683
12/03/2006	-10.64829
13/03/2006	-8.357674
14/03/2006	-18.19854
15/03/2006	-19.41308
16/03/2006	-16.29723
17/03/2006	-14.05055
18/03/2006	-12.12665
19/03/2006	-10.62734
20/03/2006	-9.447334
21/03/2006	-8.336166
22/03/2006	-6.959583
23/03/2006	-5.434536
24/03/2006	-12.40183
25/03/2006	-16.83873
26/03/2006	-21.25584
27/03/2006	-19.36973
28/03/2006	-17.24773
29/03/2006	-15.18788
30/03/2006	-20.81362
31/03/2006	-19.05893
01/04/2006	-21.92575
02/04/2006	-21.9523
03/04/2006	-20.75099
04/04/2006	-18.05713
05/04/2006	-15.18659
06/04/2006	-13.53816
07/04/2006	-16.31086
08/04/2006	-15.27843
09/04/2006	-13.57393
10/04/2006	-11.3037
11/04/2006	-9.557003
12/04/2006	-8.199078
13/04/2006	-5.744652
14/04/2006	-3.36335
15/04/2006	-2.210888
16/04/2006	0.1067047
17/04/2006	2.602352

18/04/2006	4.595997		
19/04/2006	1.389744		
20/04/2006	2.283596		
21/04/2006	2.27755		
22/04/2006	3.9716		
23/04/2006	4.065765		
24/04/2006	5.560028		
25/04/2006	5.754402		
26/04/2006	7.748882		
27/04/2006	10.54347		
28/04/2006	12.66294		
29/04/2006	14.21914		
30/04/2006	4.648193		
01/05/2006	1.043209		
02/05/2006	2.738335		
03/05/2006	5.533573		
04/05/2006	8.328915		
05/05/2006	11.22437	9.3	6.3
06/05/2006	4.234661		
07/05/2006	-8.185814		
08/05/2006	-5.090031		
09/05/2006	-1.994144	7.9	4.3
10/05/2006	1.401863	8.2	5.9
11/05/2006	4.297981	8.6	6.5
12/05/2006	4.294205		
13/05/2006	-1.095974	8.9	6.7
14/05/2006	-0.1995316	8.3	6
15/05/2006	-4.946854	8.4	6.4
16/05/2006	-3.050186	7.9	4.9
17/05/2006	-9.427486	8.1	5.8
18/05/2006	-8.730598	7.5	5.6
19/05/2006	-8.0336	7.6	6.9
20/05/2006	-17.4989		
21/05/2006	-22.22264		
22/05/2006	-27.83058		
23/05/2006	-26.04538		
24/05/2006	-23.96106		
25/05/2006	-20.06594		
26/05/2006	-20.21737		
27/05/2006	-17.57806		
28/05/2006	-13.85579		
29/05/2006	-11.14632		
30/05/2006	-8.293575		
31/05/2006	-5.262638		
01/06/2006	-3.985683		
02/06/2006	-0.6667023		
03/06/2006	1.231518		
04/06/2006	-21.13903		
05/06/2006	-28.49384		
06/06/2006	-28.52254		
07/06/2006	-26.11343		
08/06/2006	-26.15119		
09/06/2006	-25.67305	5.8	8.4
10/06/2006	-20.33929	5.9	8.4
11/06/2006	-15.70974	6.4	10.3

12/06/2006	-20.66447	6.9	11
13/06/2006	-17.25609		
14/06/2006	-15.99776	6.7	10.7
15/06/2006	-18.12941	6.8	9.8
16/06/2006	-15.62359		
17/06/2006	-15.68084		
18/06/2006	-16.54678		
19/06/2006	-14.07454		
20/06/2006	-14.95293		
21/06/2006	-13.90211		
22/06/2006	-11.02499		
23/06/2006	-8.220654		
24/06/2006	-6.260559		
25/06/2006	-3.837688		
26/06/2006	-1.633434		
27/06/2006	0.8665657		
28/06/2006	-4.233437		
29/06/2006	-1.033436		
30/06/2006	1.866562		
01/07/2006	6.266563		
02/07/2006	4.866566		
03/07/2006	1.966564		
04/07/2006	6.466564		
05/07/2006	-0.7334366		
06/07/2006	-2.833439		
07/07/2006	-6.833435	8.1	8.8
08/07/2006	-13.13343		
09/07/2006	-10.93344	7.1	8.3
10/07/2006	-8.033436	7.3	8.6
11/07/2006	-9.233437	7.6	9.5
12/07/2006	-5.433437		
13/07/2006	-1.23344	7.9	9.3
14/07/2006	0.3665581	8.3	9.8
15/07/2006	2.96656		
16/07/2006	2.566563		
17/07/2006	4.466564		
18/07/2006	6.966564		
19/07/2006	7.26656		
20/07/2006	-3.433437		
21/07/2006	-2.233437	8.1	9.9
22/07/2006	-10.00994	8.2	8.6
23/07/2006	-7.009941	7.4	8.3
24/07/2006	-3.009941		
25/07/2006	0.8900566	8.1	7.8
26/07/2006	3.790058	8.5	9.8
27/07/2006	7.090057	8.8	9.3
28/07/2006	6.990055	9.1	10.9
29/07/2006	10.89006	9.1	9.5
30/07/2006	14.16423		
31/07/2006	14.46423		
01/08/2006	5.176731		
02/08/2006	-3.791595		
03/08/2006	-0.8915977		
04/08/2006	0.9084053		
05/08/2006	2.908405		

06/08/2006	2.408405		
07/08/2006	5.608406		
08/08/2006	7.408405		
09/08/2006	9.908405		
10/08/2006	8.608406		
11/08/2006	7.408405		
12/08/2006	7.508404		
13/08/2006	7.208408		
14/08/2006	8.208408		
15/08/2006	9.508408	9.2	8.5
16/08/2006	11.40841	9.4	8.8
17/08/2006	10.80841	9.6	8.9
18/08/2006	-3.081276	9.5	9
19/08/2006	-7.030586	8.1	7
20/08/2006	-4.930584	7.7	7.4
21/08/2006	-15.07766	7.9	7.5
22/08/2006	-12.97766	6.9	6.2
23/08/2006	-19.42244	7.1	6.1
24/08/2006	-16.64371	6.5	4.4
25/08/2006	-14.24048		
26/08/2006	-12.62061		
27/08/2006	-19.6551		
28/08/2006	-21.7514		
29/08/2006	-18.7052		
30/08/2006	-17.05446		
31/08/2006	-16.87112		
01/09/2006	-18.61432	6.7	6
02/09/2006	-25.46834	6.6	7.4
03/09/2006	-22.43	5.9	5.1
04/09/2006	-19.42136	6.2	7
05/09/2006	-19.08007	6.5	5.9
06/09/2006	-16.22838	6.5	6
07/09/2006	-13.65716	6.8	6.8
08/09/2006	-11.52483	7.1	7.2
09/09/2006	-9.414654	7.3	7.3
10/09/2006	-7.689945		
11/09/2006	-5.937019		
12/09/2006	-4.438789		
13/09/2006	-2.784695		
14/09/2006	-11.65022		
15/09/2006	-9.794315		
16/09/2006	-8.347912		
17/09/2006	-6.717915		
18/09/2006	-5.003899		
19/09/2006	-2.902142		
20/09/2006	-1.402142		
21/09/2006	0.5978584		
22/09/2006	-10.36241		
23/09/2006	-9.262016		
24/09/2006	-8.260429		
25/09/2006	-9.354519		
26/09/2006	-8.148922		
27/09/2006	-6.845249		
28/09/2006	-9.039867		
29/09/2006	-13.3983	7.5	5.2

30/09/2006	-12.54168		
01/10/2006	-13.93932	7.2	5.5
02/10/2006	-14.18999		
03/10/2006	-13.21466	7.0	5.3
04/10/2006	-13.60492	7.1	6.2
05/10/2006	-18.96511	7.1	5.5
06/10/2006	-21.35264	6.5	5.9
07/10/2006	-22.07712	6.3	6.4
08/10/2006	-21.89012		
09/10/2006	-21.76494		
10/10/2006	-21.23626		
11/10/2006	-24.05171		
12/10/2006	-21.80365		
13/10/2006	-20.07666		
14/10/2006	-18.40079		
15/10/2006	-16.61149		

Date	Tmax C	Tmin C	RH %	Sun hr	Solar MJ/m2	Net MJ/m2	Wind km/d	ET mm/d
14/07/2005	28.5	15.8	54	10.1	22.5	13.2	137.7	5
15/07/2005	23.8	14.5	58	7.3	19	11.35	130	4.3
16/07/2005	21.2	8.7	60	5.5	16.7	10.17	83.6	3.4
17/07/2005	26.6	10.7	60	10.6	23	13.27	72.4	3.8
18/07/2005	21.1	13	62	3	13.6	8.72	178.6	3.4
19/07/2005	19.4	11.1	57	2.8	13.3	8.49	189	3.4
20/07/2005	20.4	13	56	6.5	17.9	10.5	176.1	3.9
21/07/2005	16	12.2	72	0	6.9	5.49	135.5	2.1
22/07/2005	17.7	12.4	78	0	5.3	4.69	40	1.3
23/07/2005	20.9	11.2	72	2.1	12.2	8.05	67.6	2.3
24/07/2005	17.1	12.3	84	0	4.5	4.3	142.1	1.6
25/07/2005	15.3	11.3	80	0	6.3	5.19	126.7	1.8
26/07/2005	18.2	12.1	64	3	13.2	8.33	64.5	2.4
27/07/2005	15.2	12.5	76	0	5.7	4.88	94.7	1.7
28/07/2005	22.7	12.5	83	0	7.2	5.58	141.7	1.9
29/07/2005	18.9	14.8	71	0	7.3	5.6	151.2	2.3
30/07/2005	19.3	12.6	73	0.8	10.3	7.02	64.3	2.2
31/07/2005	17	12.2	68	0.7	10.2	6.89	55.5	2.1
01/08/2005	19.6	13.1	68	1.8	11.3	7.44	35.3	2.1
02/08/2005	23.5	13.2	63	7	17.6	10.23	152.4	3.6
03/08/2005	20.8	13.9	62	6.7	17.2	9.95	138.1	3.6
04/08/2005	20.6	11	65	4.8	14.8	8.91	137.4	3.2
05/08/2005	19.8	12.6	70	4.5	14.4	8.71	158.7	3.1
06/08/2005	17.9	11.5	63	2.2	11.6	7.35	97.1	2.6
07/08/2005	19	7.1	61	7.8	18.2	10.13	71.8	3
08/08/2005	22.2	7.6	59	10.5	21.3	11.4	74.5	3.2
09/08/2005	23.3	8.8	60	7.6	17.7	9.86	58.2	3
10/08/2005	20.2	13.1	70	0.4	9.2	6.31	77.8	1.9
11/08/2005	24	11	66	3	12.2	7.56	73.4	2.5
12/08/2005	18	10.2	77	0	7.5	5.51	80.9	1.8
13/08/2005	17.5	8	80	0	5.9	4.76	123.4	1.5
14/08/2005	19.3	10.9	73	1	9.5	6.34	115.5	1.9
15/08/2005	20	8.5	72	7.5	17	9.57	64.3	2.6
16/08/2005	24.1	10.5	68	5.6	14.8	8.59	40.3	2.2
17/08/2005	25.4	13.8	59	9.3	18.9	10.09	93.9	3.4
18/08/2005	26.2	13	61	6.4	15.5	8.71	72.2	3
19/08/2005	19	14.2	70	0	7.1	5.17	121.9	2.4
20/08/2005	19.8	10.9	63	4.4	13	7.54	97.6	2.5
21/08/2005	23	10	65	9.4	18.6	9.69	45.7	2.8
22/08/2005	17.3	12.7	84	0	4.2	3.84	91.9	1.1
23/08/2005	19.6	8.6	67	6.2	14.8	8.15	124.2	2.6
24/08/2005	17.6	12.4	77	0	5.5	4.42	245.3	1.9
25/08/2005	16.1	9.9	73	3.5	11.5	6.76	105.7	2.3
26/08/2005	16.8	8.9	66	4.2	12.3	6.94	156.4	2.4
27/08/2005	18.8	10.5	72	2.2	10	6.14	91.6	1.7
28/08/2005	22.1	10.5	70	4.8	12.7	7.17	159	2.6
29/08/2005	23.2	14.4	71	4.1	11.9	6.84	169.4	2.7
30/08/2005	26.8	14.4	57	8.4	16.4	8.32	113.8	3.3
31/08/2005	29.6	16.4	68	4.8	12.4	7	166.7	3.6
01/09/2005	21.6	15.1	71	3.6	11	6.37	102.9	2.3
02/09/2005	21.1	9.1	61	9.5	17.2	8.27	50.9	2.7
03/09/2005	23.4	12.5	72	4.5	11.7	6.54	106.7	2.2
04/09/2005	27.5	15.3	67	7.4	14.7	7.6	154.9	3.2

05/09/2005	22.9	14.3	79	0	6.3	4.47	67.6	1.8
06/09/2005	23.3	11.5	69	6.2	13.2	6.89	45.6	2.2
07/09/2005	22.3	13.7	68	3.7	10.5	5.82	164.9	2.7
08/09/2005	21.1	15	75	1.3	7.9	4.97	155.2	2
09/09/2005	22.1	12.9	76	5.1	11.7	6.33	47	1.9
10/09/2005	18.2	14	91	0	2.4	2.84	91.2	0.8
11/09/2005	17.2	12.5	79	0	4.6	3.68	144.7	1.5
12/09/2005	21.3	10.1	70	7.9	14.2	6.62	46.5	2
13/09/2005	21.5	11.7	72	5.4	11.6	5.89	147.6	2.3
14/09/2005	20.7	10.5	70	5.5	11.6	5.87	168.6	2.2
15/09/2005	19.2	10.1	89	0	3.4	3.2	106.2	1.3
16/09/2005	13.5	4.1	70	5.2	11.1	5.33	168.9	2
17/09/2005	14.5	1.7	70	5.9	11.6	5.38	46.7	1.3
18/09/2005	16	11.5	76	0	4.8	3.55	61.5	0.7
19/09/2005	16.9	12.2	74	0	5.7	3.76	110.9	1.4
20/09/2005	20.7	11.9	71	3.1	8.6	4.54	60.7	1.4
21/09/2005	19.1	10.4	72	4.8	10.1	4.81	87.6	1.9
22/09/2005	20.4	12.2	72	6.1	11.2	5.05	134.7	2
23/09/2005	17.6	9.9	76	0	4.3	3.26	154.3	1.6
24/09/2005	14.8	2.6	64	7.9	12.5	4.9	71.3	1.7
25/09/2005	18.9	10.4	73	4.5	9.3	4.34	152	1.4
26/09/2005	17	8.6	79	0.3	5.5	3.44	246.8	1.6
27/09/2005	17.7	9.3	66	4.7	9.3	4.12	202.3	1.8
28/09/2005	14.9	6.5	74	4.2	8.7	3.91	220.4	1.8
29/09/2005	14	7.6	68	3	7.6	3.57	108.7	1.4
30/09/2005	19.8	10.1	87	0.2	5.1	3.23	232.2	0.8
01/10/2005	13.8	9	72	2.8	7.2	3.41	157.9	1.5
02/10/2005	14.3	6.1	66	4.3	8.3	3.46	69.2	1.2
03/10/2005	13.6	10.7	76	0	2.6	2.63	11.7	0.5
04/10/2005	15.3	8	73	2.6	6.7	3.17	13.1	0.8
05/10/2005	14.2	7.1	90	0	3.7	2.73	55.3	0.7
06/10/2005	15.7	12.5	86	0	2	2.4	29.8	0.4
07/10/2005	16.5	13.5	79	0.4	4.6	2.78	105	1.1
08/10/2005	16.4	7.9	85	0	2.7	2.46	168.4	1
09/10/2005	14.2	5.2	77	4.3	7.6	2.86	133.9	1.3
10/10/2005	21	8.8	73	5.2	8.2	2.89	181.9	1.4
11/10/2005	20.6	14.3	76	3.5	6.8	2.87	210.1	1.5
12/10/2005	19.2	12.7	84	0	3.4	2.43	197.2	0.9
13/10/2005	13.8	8.4	80	0.4	4.2	2.43	74.1	1
14/10/2005	14.3	8.6	80	1	4.6	2.39	66.6	0.7
15/10/2005	18.8	13.1	82	2.4	5.5	2.42	78.8	0.7
16/10/2005	17	12.3	82	2	5.2	2.31	109.5	1.2
17/10/2005	15.1	10.9	89	0	3.1	2.2	67.5	0.8
18/10/2005	12.8	9.2	77	0.5	3.9	2.11	99	1.1
19/10/2005	13.5	9.2	86	0	3.3	2.11	153.5	0.8
20/10/2005	14.1	8.1	76	4.8	6.9	1.79	154.4	1.1
21/10/2005	14.5	9.9	80	0.8	3.9	1.97	263.7	1.2
22/10/2005	13.5	9.2	82	0	3.2	1.96	47.4	0.7
23/10/2005	13.9	5.9	85	1.8	4.5	1.8	54.8	0.7
24/10/2005	16.6	10.4	89	0	1.4	1.94	311.9	0.3
25/10/2005	15.8	11.6	72	1.9	4.4	1.63	351	1.8
26/10/2005	17.1	10.2	83	0.1	3.1	1.8	223.9	0.9
27/10/2005	19.6	14.5	75	4.6	6	1.38	250.3	1.4
28/10/2005	16.7	12.9	78	1.1	3.7	1.6	278.3	1.5
29/10/2005	16.7	12.3	81	2.3	4.4	1.44	233.6	1.1

30/10/2005	17.5	13.1	77	0	2.5	1.68	334.3	1.4
31/10/2005	14.4	11.3	81	0	2.5	1.62	156.6	1.1
01/11/2005	12.7	8.8	75	4.5	5.5	0.69	161.1	0.9
02/11/2005	17.7	9.4	84	0.9	3.3	1.4	296.9	0.7
03/11/2005	15.1	10.3	79	0	2.3	1.53	463.6	1.3
04/11/2005	10.8	5.5	75	0.9	3.1	1.19	240.9	1.1
05/11/2005	14	3.1	79	1.1	3.2	1.13	223.8	0.8
06/11/2005	14.2	7.9	84	0	1	1.8	318.8	0.6
07/11/2005	12.1	7.9	77	3.7	4.5	0.43	306.6	1.2
08/11/2005	15.3	6.9	76	0.1	2.5	1.22	360.6	1
09/11/2005	10.5	3.6	76	3.5	4.3	0.26	61.3	0.6
10/11/2005	14.8	5.8	83	0	1.8	1.42	285.6	0.3
11/11/2005	13.8	6.6	75	0	1.6	1.47	375.1	1
12/11/2005	10	2.3	79	2.4	3.5	0.4	126.1	0.8
13/11/2005	9.1	-0.4	80	3.2	3.9	0.15	67.8	0.3
14/11/2005	9.3	-1	82	3.7	4.1	-0.06	82.7	0.2
15/11/2005	11.3	5.7	74	1.7	3	0.48	97.7	0.2
16/11/2005	6.9	-0.1	71	1.8	3	0.38	85	0.5
17/11/2005	6.4	-2.8	76	2.9	3.5	-0.1	15.5	0.2
18/11/2005	6.6	-4.9	81	2.9	3.5	-0.12	9.7	0.1
19/11/2005	5.7	-2.5	90	1.8	2.9	0.26	2.5	0.1
20/11/2005	5	-3.8	88	2.5	3.2	-0.05	15.6	0.2
21/11/2005	4.8	-3.6	89	2.6	3.2	-0.12	5.4	0.1
22/11/2005	5.7	-0.3	89	0	1.4	1.23	8.9	0
23/11/2005	4.9	-0.8	89	0	1.3	1.21	34.8	0.2
24/11/2005	9.3	-0.5	76	0	1.8	0.84	168.4	0.6
25/11/2005	2.5	-1.3	64	0.8	2.2	0.36	109.9	0.7
26/11/2005	6.2	2.6	77	0.7	2.1	0.44	140.7	0.3
27/11/2005	5	1.6	80	0	1	1.39	74.5	0.5
28/11/2005	3.5	0.3	82	0	1.4	1.02	45.8	0.4
29/11/2005	3.3	-2.4	82	1.5	2.4	0.05	21.6	0.2
30/11/2005	6.8	-2.2	91	0	1.1	1.23	93.7	0.1
01/12/2005	9.2	6.7	86	0	0.5	1.71	277.4	0.7
02/12/2005	8.7	5.4	82	0	1.2	1.07	294.9	0.8
03/12/2005	7.6	6.1	83	0	1.2	1.08	257.2	0.7
04/12/2005	8.1	2.5	87	1.8	2.4	-0.12	58.2	0.2
05/12/2005	7.2	5.1	86	0	0.8	1.4	83.4	0.4
06/12/2005	7.1	4.7	82	0	1	1.27	56.6	0.5
07/12/2005	5.5	-1.4	85	1	2	0.13	84.6	0.4
08/12/2005	8.6	-0.4	85	1.1	2	0.11	53.4	0
09/12/2005	6.2	-2.6	89	1	2	0.13	85.2	0.2
10/12/2005	8.2	5.3	82	0.4	1.7	0.38	148.5	0.2
11/12/2005	9.3	1.4	84	0.9	1.9	0.15	46.3	0.3
12/12/2005	7.6	5.2	80	0.7	1.8	0.22	81.1	0.3
13/12/2005	5.9	0.5	80	0.3	1.7	0.38	30.2	0.3
14/12/2005	8.9	5.5	74	0	1.3	0.78	61.2	0.1
15/12/2005	10.6	6.8	75	1	1.9	0.06	159.2	0.5
16/12/2005	11	2.4	64	0.4	1.7	0.29	228.8	1.1
17/12/2005	3.4	-3.3	57	1.1	2	-0.12	89.2	0.8
18/12/2005	6.2	-5.4	77	0.2	1.6	0.4	115.7	0.5
19/12/2005	7.7	0	86	1.2	2	-0.02	30	-0.2
20/12/2005	6.2	0.6	83	0	1.3	0.8	34.2	0.2
21/12/2005	9.6	4	86	0.9	1.9	0.14	122	0
22/12/2005	9	7.5	80	0	1	1.09	145.6	0.6
23/12/2005	10.6	4.4	76	0	1.5	0.57	128.2	0.6

24/12/2005	9.7	-1.5	88	0.3	1.7	0.41	16.5	0.3
25/12/2005	5.1	-2.5	85	0	1.3	0.75	13.2	0.3
26/12/2005	5	0.5	85	0	0.9	1.3	51.3	0.2
27/12/2005	1	-1.1	89	0	1.5	0.57	98.7	0.3
28/12/2005	0.1	-2.3	89	0	0.9	1.27	69.5	0.3
29/12/2005	-1.1	-3.1	91	0	1	1.19	63.9	0.3
30/12/2005	7.3	-0.9	86	0	0.3	1.92	259.9	0.4
31/12/2005	7.4	4	80	0	1.3	0.84	195.6	0.6
01/01/2006	7.6	5	75	0	1.4	0.76	113.5	0.6
02/01/2006	6.3	0.6	83	0	1.2	0.98	21.6	0.3
03/01/2006	8.8	5.1	89	0	0.6	1.65	69.1	0.2
04/01/2006	5.5	2.4	88	0	1.5	0.79	54.3	0.4
05/01/2006	2.9	1.3	79	0	0.9	1.43	61.3	0.5
06/01/2006	2.9	1.2	85	0	0.5	1.81	14	0.3
07/01/2006	2.3	0.4	89	0	0.6	1.68	30.1	0.3
08/01/2006	3.7	1	86	0	0.6	1.74	26.4	0.2
09/01/2006	5.6	3.2	87	0	1.3	1.09	127.7	0.3
10/01/2006	9.5	4.5	82	0	0.6	1.7	449.3	0.9
11/01/2006	10.3	1.4	73	1.2	2.3	0.27	218.9	0.6
12/01/2006	5.8	0.7	80	0.8	2.2	0.41	234.7	0.7
13/01/2006	7.8	4.9	76	0	1.8	0.81	348.1	0.9
14/01/2006	7.8	3.6	87	0	0.5	1.83	202.8	0.5
15/01/2006	8.1	3.1	85	0	1.8	0.9	198.7	0.4
16/01/2006	8.5	4.3	84	0	0.8	1.64	243.7	0.7
17/01/2006	8.2	5.7	82	0	1.6	1.1	85.5	0.5
18/01/2006	11.1	5.9	88	0	0.8	1.67	48.6	0.2
19/01/2006	11	8.4	80	0	1.1	1.52	201.7	0.8
20/01/2006	10.1	6.5	67	1.3	2.7	0.41	295.6	1.5
21/01/2006	9.6	0.7	73	2.1	3.1	0.25	69.4	0.5
22/01/2006	5.3	-1.2	85	1.7	3	0.44	41.4	0.4
23/01/2006	2.6	0.4	76	0	0.9	1.75	75.3	0.5
24/01/2006	2.3	-3.5	78	0.3	2.3	0.95	22.6	0.3
25/01/2006	6.4	-4.5	82	0.1	2.3	1.03	50.5	0.2
26/01/2006	5.6	-0.1	73	2.2	3.4	0.4	55.6	0.2
27/01/2006	3.9	1.1	81	0	1.6	1.48	60.8	0.4
28/01/2006	4	-2	81	2.4	3.7	0.52	61.7	0.3
29/01/2006	3.9	0.1	78	1	3	0.92	65.2	0.3
30/01/2006	4.8	3.2	71	0	1.4	1.71	55.9	0.4
31/01/2006	3.9	1.8	77	0	2.5	1.24	45	0.5
01/02/2006	1.9	-2.6	83	0	1.1	1.86	21.3	0.3
02/02/2006	-1.8	-3.3	82	0	1.1	1.91	13.4	0.4
03/02/2006	2.3	-2.3	82	0	1.4	1.82	13.3	0.2
04/02/2006	7	2.3	79	0	2.1	1.6	14.8	0
05/02/2006	8.2	1.3	82	0	2.3	1.59	29.5	0.3
06/02/2006	8.1	4.1	68	0	1.6	1.87	106	0.8
07/02/2006	9	7.1	67	0	1.6	1.89	215.1	1.2
08/02/2006	8.7	2.9	69	2.6	4.6	1.08	151.8	1
09/02/2006	5	-1.3	55	3.9	5.4	0.82	109.2	0.9
10/02/2006	5.5	-1.5	67	2	4.3	1.3	20.5	0.3
11/02/2006	4.6	-1.6	76	0	2.9	1.73	87.4	0.6
12/02/2006	9.6	4	88	0	1.4	2.01	143.9	0.2
13/02/2006	9.7	7.5	84	0	2.7	1.88	124	0.5
14/02/2006	9.8	6	78	0.8	3.8	1.78	324	1.3
15/02/2006	11	3.8	73	3.7	5.8	1.59	290	1.1
16/02/2006	7.4	3.2	78	2.5	5.1	1.74	259.5	1.1

17/02/2006	9	2.1	72	3.3	5.7	1.71	111.5	0.8
18/02/2006	8.1	-2	81	2.7	5.4	1.88	6.4	0.6
19/02/2006	4.8	-1.6	87	0	1.5	2.17	71	0.4
20/02/2006	6.6	2.1	73	0.8	4.2	2.08	144.7	0.8
21/02/2006	5	1.5	80	0	3.7	2.18	121	0.8
22/02/2006	3.2	1.5	77	0	1.6	2.28	100.7	0.7
23/02/2006	4.5	0.2	85	0	1.6	2.29	55.2	0.5
24/02/2006	2.5	-0.1	77	0	3.6	2.33	86.2	0.6
25/02/2006	5	1.8	71	1.3	5	2.38	140.2	0.7
26/02/2006	6.3	1.7	73	1.1	4.9	2.44	101.7	0.8
27/02/2006	6	2.7	66	0.2	4.2	2.47	130.6	1
28/02/2006	4.2	-1.1	57	4.4	7.7	2.55	158.2	1.2
01/03/2006	4	-2.6	56	5.2	8.4	2.62	101.5	1
02/03/2006	4.2	-3.7	75	3.8	7.4	2.85	73.5	0.8
03/03/2006	4.2	-5.7	66	6.1	9.4	3.01	33	0.7
04/03/2006	4.6	-5.1	65	4.8	8.4	3.06	64.7	0.7
05/03/2006	6.3	-0.8	66	5	8.7	3.14	111	0.9
06/03/2006	5.1	-1.2	78	0.4	5	2.93	45	0.7
07/03/2006	5	-0.3	89	0	2.3	2.59	177.6	0.4
08/03/2006	11.8	5.1	93	0	2.7	2.66	142.3	0.1
09/03/2006	9.6	5.3	81	0	4.7	3.06	130	0.9
10/03/2006	6	3.4	77	0	2.8	2.78	193.6	1.1
11/03/2006	4.4	-0.6	72	0	4.9	3.16	100	0.9
12/03/2006	3.1	-1	58	0	4.3	3.1	203.8	1.3
13/03/2006	4.3	0.3	53	1.6	6.6	3.46	299.6	1.8
14/03/2006	5.9	1.5	74	0	2.8	2.88	207.7	0.9
15/03/2006	7.3	1.2	70	5.4	10.2	4.35	119.3	1.2
16/03/2006	3.5	0.1	77	0	2.9	2.95	91.1	0.8
17/03/2006	3.8	0.8	73	0	3.3	3.07	107.6	0.8
18/03/2006	3.2	1.3	71	0	3.1	3.05	151.4	0.9
19/03/2006	7.4	3.1	69	0	4.5	3.39	77	0.8
20/03/2006	4.8	2.4	76	0	4.1	3.33	89.4	0.9
21/03/2006	4.3	1.1	65	0	4.2	3.4	58.1	0.9
22/03/2006	5.5	-1.5	63	4.3	10	4.78	69.7	1.2
23/03/2006	8.9	-1.7	57	6.7	12.5	5.36	179.7	1.8
24/03/2006	12.6	4.2	83	0	4.8	3.64	239.3	1
25/03/2006	13.6	9.1	80	2.8	8.9	4.91	316.2	1.6
26/03/2006	14.6	11	79	0.5	6.7	4.3	389.2	1.6
27/03/2006	12.7	9.5	80	0	4.5	3.64	470.4	1.6
28/03/2006	11.2	6.3	72	1.8	8.2	4.76	373.8	2.1
29/03/2006	12.2	4.1	74	1.8	8.2	4.83	125.4	1.5
30/03/2006	15.5	8	74	3.6	10.2	5.57	391.2	2.1
31/03/2006	14.4	9.5	72	4.1	10.8	5.75	280.9	2.4
01/04/2006	12.9	6.4	68	5	11.9	6.11	276.9	2.2
02/04/2006	11.7	5.1	77	1.5	8.4	5.08	250	1.7
03/04/2006	9.8	3.8	63	4.3	11.3	5.98	152.6	1.9
04/04/2006	6.9	-0.5	64	6.1	13.4	6.71	100.8	1.7
05/04/2006	10.2	-3.4	52	8.7	16.2	7.47	79.9	1.8
06/04/2006	10.3	1.6	61	3.2	10.5	5.87	185.8	1.7
07/04/2006	9.7	2.6	65	3.4	10.8	6.05	188.3	1.8
08/04/2006	9.8	1	69	3	10.5	6	187.1	1.8
09/04/2006	8.1	1	80	0	6.3	4.59	60.9	1.2
10/04/2006	8.6	-0.6	65	3.9	11.6	6.43	48.9	1.5
11/04/2006	10	0.9	77	0	4.9	4.12	217.7	1.2
12/04/2006	12.1	4.9	66	2.4	10.2	6.08	179.1	1.8

13/04/2006	14.3	6.8	70	0.2	7.8	5.26	158.3	1.7
14/04/2006	13.9	5.3	57	7.7	16.3	8.27	84.8	2.4
15/04/2006	13.4	8	72	1	8.9	5.76	69	1.5
16/04/2006	13.8	5.5	63	1.5	9.5	5.98	98	1.8
17/04/2006	12.3	4.9	72	3.5	11.8	6.96	112.9	1.9
18/04/2006	12.9	5.5	71	2.2	10.4	6.44	154.2	1.8
19/04/2006	11.3	7.4	87	0	5.2	4.39	172.2	1.2
20/04/2006	13.2	8.7	87	0	5.7	4.61	108.2	1.1
21/04/2006	12.6	7.2	86	0	6.9	5.15	51.6	1.3
22/04/2006	13.7	5.6	77	5.1	14.1	8.16	98.6	2
23/04/2006	11.9	7.3	79	0	5	4.36	69	1
24/04/2006	13	5.7	83	0	8.1	5.69	96	1.4
25/04/2006	17.4	10	74	0.4	8.9	6.07	197.5	2
26/04/2006	13.9	5.3	64	1.1	9.8	6.4	61	1.9
27/04/2006	14.6	6.9	61	0.1	8.7	5.96	67.7	1.6
28/04/2006	12.8	6.1	60	5.1	14.6	8.42	92.8	2.3
29/04/2006	12.6	6.4	54	3.8	13.2	7.78	105.1	2.4
30/04/2006	10.1	5	69	1.6	10.6	6.88	87	1.8
01/05/2006	11.4	5	76	1.5	10.6	6.91	142.4	1.6
02/05/2006	13.9	3.9	71	0.6	9.6	6.52	248.6	1.8
03/05/2006	18.4	10.5	69	6.6	16.9	9.72	188.1	2.8
04/05/2006	25.6	11.9	62	7.9	18.5	10.53	187.4	3.9
05/05/2006	18.8	8.9	59	10.1	21.3	11.62	103.6	3.7
06/05/2006	17.5	6.9	73	2.6	12.2	7.79	49.1	2.2
07/05/2006	13.8	10.8	84	0	4.2	4.11	24.2	1.1
08/05/2006	14.6	11.4	86	0	6.8	5.32	90.3	1.4
09/05/2006	19.4	8.8	79	4.8	15.1	9.24	91.9	2.5
10/05/2006	20.9	7.5	65	8.5	19.7	11.12	117.9	3.5
11/05/2006	21.6	5.8	55	8.7	20.1	11.16	49.9	3.2
12/05/2006	22.2	7.3	61	6.8	17.8	10.35	79.5	3.1
13/05/2006	12.5	9.7	90	0	3.3	3.7	42.9	1.2
14/05/2006	14.3	9.3	84	0	5.9	4.99	114.6	1.4
15/05/2006	16.2	10	87	0	5.8	4.94	156	1.4
16/05/2006	16.3	11	76	0	9.2	6.57	121.6	1.9
17/05/2006	15.9	10.6	86	0	8	6.04	189.6	1.6
18/05/2006	16.7	9.9	78	3.5	14.1	8.96	317.2	2.8
19/05/2006	14.6	10.7	77	0	9	6.51	313.7	2.2
20/05/2006	14.3	9.4	82	0	8.3	6.2	186.7	1.9
21/05/2006	15.2	7.7	83	0	6.8	5.49	186.8	1.7
22/05/2006	14.5	6.7	83	0	8.5	6.3	181.2	1.7
23/05/2006	12.7	5.4	67	6	17.4	10.43	215.2	2.8
24/05/2006	13.3	6.7	69	3.5	14.3	9	216.5	2.6
25/05/2006	16.4	7.8	64	8.2	20.2	11.76	63.8	2.9
26/05/2006	18.4	10.2	78	0	6.4	5.29	145.7	1.5
27/05/2006	17.2	12.2	80	0	8	6.09	180	2
28/05/2006	15.8	9.8	60	5.5	17	10.25	137.8	3.3
29/05/2006	12.6	7	64	5.6	17.1	10.38	140.7	2.9
30/05/2006	12.4	6.7	56	3.8	14.9	9.24	122.5	2.7
31/05/2006	14.8	6	57	6.2	18	10.68	103.7	2.9
01/06/2006	17.9	4.6	71	0.1	10.3	7.24	81	2.1
02/06/2006	19.8	7.4	64	8.7	21.1	12.41	70	3.2
03/06/2006	22.2	6.4	58	11.2	24.3	13.75	87.5	4
04/06/2006	21.9	6.9	55	5.2	16.8	10.28	64.9	3
05/06/2006	17.8	9.4	69	5.5	17.2	10.59	86.4	3.1
06/06/2006	20.7	6.9	63	6.6	18.6	11.27	47.2	3

07/06/2006	24.7	10.7	62	7.1	19.3	11.72	44.8	3
08/06/2006	24.2	11.6	64	9.9	22.8	13.43	69.2	4
09/06/2006	24.8	13	54	10.7	23.8	13.74	168.6	4.9
10/06/2006	26.9	13.6	53	11.1	24.3	13.99	214.8	5.5
11/06/2006	25.8	16.1	61	8.6	21.2	12.84	137.8	4.4
12/06/2006	27.3	17.1	67	3.3	14.5	9.56	120.4	3.6
13/06/2006	20.8	12.8	70	0.4	10.9	7.64	47.9	2.9
14/06/2006	17.4	11	70	0	7.2	5.8	73.9	2
15/06/2006	19.7	9.4	64	6.2	18.2	11.15	49.9	3
16/06/2006	22.1	10.1	62	7.5	19.8	12.03	53	3.2
17/06/2006	24.9	14.9	63	4.1	15.6	10.01	71.1	2.9
18/06/2006	19.4	14.8	61	1	11.7	7.99	135.4	3.1
19/06/2006	18.4	13.1	72	0	9.3	6.85	194.5	2.5
20/06/2006	20.6	11.9	69	6.9	19.2	11.72	270.8	3.9
21/06/2006	16.5	11.7	58	4.2	15.7	9.87	248.7	3.7
22/06/2006	16.4	12	57	5.6	17.4	10.63	225.1	3.8
23/06/2006	19.6	7.9	57	5.5	17.4	10.65	65.4	3
24/06/2006	20.6	13.3	59	3.6	15	9.57	68.1	2.7
25/06/2006	23.2	13.2	62	6.3	18.3	11.26	84.3	3.5
26/06/2006	15.9	11.7	74	0	9.2	6.77	81.9	2.4
27/06/2006	17	10.8	72	0	10.3	7.31	26.7	1.9
28/06/2006	21	12.7	61	3.7	15	9.55	137.3	3.2
29/06/2006	24.4	12.5	55	8.4	20.9	12.3	144.6	4.3
30/06/2006	26.4	13.3	54	7.8	20.1	11.96	135.8	4.4
01/07/2006	28.4	14.1	52	9.7	22.6	13.17	88	4.7
02/07/2006	30.5	17.7	50	6.8	18.8	11.35	96.2	4.4
03/07/2006	29.2	16.6	54	9.4	22.1	12.97	96.6	5
04/07/2006	27.4	14	68	7.2	19.3	11.8	103.7	4.5
05/07/2006	21.7	14.9	82	0	8.8	6.6	42.3	2.1
06/07/2006	23.6	17.6	85	0	8.4	6.36	87.5	2

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Soil type	Location	Going a	Going b	Vol moist a	Vol moist b	Change in going
SCL	G3	8.9	9.9	43.67	43.83	1.00
SCL	G1	9.1	10.1	31.93	32.60	1.00
SCL	A2	9.1	8.9	42.43	46.03	-0.20
SCL	G5	9.3	8.2	43.37	50.03	-1.10
SCL	G5	9.4	11.6	33.53	30.43	2.20
SCL	G4	9.4	9.2	41.97	44.70	-0.20
SCL	G3	9.5	12.2	40.67	36.93	2.70
SCL	G1	9.7	10	38.27	37.63	0.30
SCL	D1	9.7	10.4	31.33	30.90	0.70
SCL	G2	9.7	8.1	41.67	43.07	-1.60
SCL	A3	9.7	8.7	42.57	50.43	-1.00
SCL	A4	9.7	9.6	40.13	51.37	-0.10
SCL	G2	9.8	9.4	43.07	47.20	-0.40
SCL	G1	9.9	9.9	37.63	51.37	0.00
SCL	G3	9.9	8.5	37.93	46.57	-1.40
SCL	G1	9.9	8.9	41.43	52.37	-1.00
SCL	G1	10	8	37.73	41.43	-2.00
SCL	K1	10	8.3	39.70	47.37	-1.70
SCL	A3	10.1	9.5	42.43	42.57	-0.60
SCL	K1	10.1	8.2	35.73	39.70	-1.90
SCL	E2	10.1	13.5	35.80	41.77	3.40
SCL	A3	10.2	10.1	42.67	43.47	-0.10
SCL	G4	10.2	10.7	45.13	52.10	0.50
SCL	K5	10.2	9.7	36.20	43.77	-0.50
SCL	A4	10.3	11.2	35.37	41.00	0.90
SCL	K3	10.3	9.7	43.67	47.53	-0.60
SCL	G4	10.5	9.4	40.40	45.13	-1.10
SCL	A4	10.5	8.4	39.53	40.13	-2.10
SCL	D5	10.5	12.1	27.30	25.67	1.60
SCL	G2	10.6	12.1	35.73	36.00	1.50
SCL	G3	10.6	9.2	46.57	51.40	-1.40
SCL	A1	10.7	12	35.90	35.57	1.30
SCL	A2	10.7	10.8	41.17	36.73	0.10
SCL	D4	10.7	13.6	22.07	27.13	2.90
SCL	G5	10.7	11	39.33	42.97	0.30
SCL	G5	10.7	9.3	42.97	51.17	-1.40
SCL	A1	10.7	12.1	35.23	36.00	1.40
SCL	A5	10.7	10.3	45.03	49.53	-0.40
SCL	G4	10.7	9.3	44.70	53.83	-1.40
SCL	A4	10.8	10.5	41.37	34.90	-0.30
SCL	E1	10.8	15	34.10	24.20	4.20
SCL	K5	10.8	10.2	41.60	43.57	-0.60
SCL	A2	10.8	9.9	39.97	42.43	-0.90
SCL	K4	10.8	10.1	40.20	47.35	-0.70
SCL	D2	10.9	13.2	37.50	36.23	2.30
SCL	G2	10.9	9.7	40.40	41.87	-1.20
SCL	A2	10.9	11.2	36.60	40.90	0.30
SCL	A4	11	10.3	41.35	35.37	-0.70
SCL	A4	11	9.7	34.90	50.43	-1.30
SCL	K1	11	10	36.13	48.33	-1.00
SCL	D3	11	11.6	28.07	27.47	0.60
SCL	G5	11.0	8.2	39.47	43.37	-2.80

SCL	A1	11.1	11.1	35.57	44.87	0.00
SCL	G2	11.1	9.8	41.87	55.93	-1.30
SCL	A1	11.1	8.9	35.70	38.70	-2.20
SCL	D1	11.2	13	34.30	33.57	1.80
SCL	K1	11.2	10.1	35.67	36.13	-1.10
SCL	G3	11.2	10.6	43.83	57.03	-0.60
SCL	G1	11.3	9.1	30.10	31.93	-2.20
SCL	A5	11.4	14	31.90	29.30	2.60
SCL	K4	11.4	10.8	44.00	39.73	-0.60
SCL	A3	11.4	9.7	43.47	52.13	-1.70
SCL	A5	11.4	9.3	34.63	45.03	-2.10
SCL	K2	11.4	8.1	33.93	40.93	-3.30
SCL	D3	11.4	10.3	31.13	44.67	-1.10
SCL	D2	11.5	11.6	30.40	21.73	0.10
SCL	G3	11.5	9.5	38.10	40.67	-2.00
SCL	A5	11.5	11.4	40.00	37.80	-0.10
SCL	E1	11.5	10.5	41.90	43.03	-1.00
SCL	K4	11.5	10.3	47.35	54.27	-1.20
SCL	K2	11.6	11.4	38.23	38.13	-0.20
SCL	K3	11.6	12.2	41.83	40.90	0.60
SCL	D2	11.6	10.1	21.73	30.33	-1.50
SCL	D1	11.7	11.3	36.83	44.57	-0.40
SCL	A5	11.8	10.7	37.80	50.03	-1.10
SCL	A2	12	9.1	36.73	41.77	-2.90
SCL	D3	12.0	11.4	31.53	37.30	-0.60
SCL	A1	12	8.4	33.07	35.70	-3.60
SCL	D2	12.0	9.2	41.40	41.97	-2.80
SCL	K5	12.1	10.1	43.77	50.53	-2.00
SCL	G2	12.2	10.6	27.90	35.73	-1.60
SCL	D1	12.2	11.7	33.57	48.90	-0.50
SCL	A3	12.2	10.9	35.27	41.87	-1.30
SCL	K3	12.2	8.4	34.03	43.67	-3.80
SCL	A1	12.3	10.7	25.50	35.23	-1.60
SCL	G4	12.3	12	36.90	36.07	-0.30
SCL	D3	12.3	9.7	29.53	31.13	-2.60
SCL	E2	12.6	10.2	29.03	35.80	-2.40
SCL	K2	12.6	9.5	40.93	46.30	-3.10
SCL	E3	12.7	13.5	33.20	24.90	0.80
SCL	D2	12.7	12	36.23	42.73	-0.70
SCL	A2	12.8	10.9	34.15	36.60	-1.90
SCL	A3	12.8	12.2	37.90	35.27	-0.60
SCL	K5	12.8	12.1	43.57	55.17	-0.70
SCL	D4	12.8	10.9	29.00	28.30	-1.90
SCL	D1	13	9.5	35.23	36.83	-3.50
SCL	G4	13.1	12.3	34.40	36.90	-0.80
SCL	K4	13.1	11.5	39.73	52.00	-1.60
SCL	D2	13.2	10.7	30.73	41.40	-2.50
SCL	D3	13.3	11	24.90	28.07	-2.30
SCL	D4	13.4	14.3	28.30	24.03	0.90
SCL	G5	13.4	9.4	31.10	33.53	-4.00
SCL	E3	13.5	11.6	33.30	35.80	-1.90
SCL	E3	13.6	13.6	24.90	32.60	0.00
SCL	K3	13.6	10.3	40.90	49.50	-3.30
SCL	D4	13.6	11.8	21.50	29.00	-1.80
SCL	E3	13.6	13.8	35.80	34.60	0.20

SCL	E2	13.8	12.6	27.67	27.67	-1.20
SCL	A5	14	11	29.30	33.20	-3.00
SCL	D4	14.3	13	24.03	21.70	-1.30
CL	F2	9.7	11.5	33.63	40.50	1.8
CL	F3	9.9	10.9	31.20	35.27	1
CL	F2	10.5	13	30.10	37.53	2.5
CL	F3	10.7	7.5	37.17	52.87	-3.2
CL	F4	11	11.3	39.60	43.23	0.3
CL	F1	11.3	11.7	37.40	34.73	0.4
CL	F1	11.3	9.5	41.20	43.10	-1.8
CL	F2	11.4	11.9	36.37	48.63	0.5
CL	C1	11.6	12.1	31.63	35.13	0.5
CL	F2	11.6	11.4	36.37	36.37	-0.2
CL	F4	11.6	10.5	38.53	47.40	-1.1
CL	C1	11.7	11.5	35.00	31.13	-0.2
CL	F1	11.7	10.5	34.73	43.77	-1.2
CL	C4	11.8	11.1	33.77	32.00	-0.7
CL	C5	11.8	11.2	32.73	38.33	-0.6
CL	F4	12	11.6	27.53	38.53	-0.4
CL	F1	12.1	13	29.10	30.53	0.9
CL	C1	12.1	9.5	35.13	43.97	-2.6
CL	C2	12.2	13.7	29.37	33.90	1.5
CL	F3	12.3	10.7	39.30	37.17	-1.6
CL	F3	12.6	13.8	34.77	35.97	1.2
CL	J2	12.7	12	30.70	39.57	-0.7
CL	F3	12.8	9.9	33.60	31.20	-2.9
CL	C5	12.8	11.8	29.23	32.73	-1
CL	F1	12.9	11.3	34.97	41.20	-1.6
CL	F2	12.9	9.7	33.90	33.63	-3.2
CL	J1	12.9	11.4	36.17	39.90	-1.5
CL	J1	13	13.7	31.33	37.87	0.7
CL	C4	13	11.8	28.93	33.77	-1.2
CL	F1	13	9.9	30.53	29.37	-3.1
CL	F2	13	10.5	37.53	37.90	-2.5
CL	F4	13.2	11	32.20	39.60	-2.2
CL	C5	13.3	12.5	29.83	36.53	-0.8
CL	C2	13.3	12.8	31.07	31.10	-0.5
CL	C5	13.4	13.3	31.25	29.83	-0.1
CL	F4	13.4	13.2	31.97	38.30	-0.2
CL	C1	13.6	11.7	30.90	35.00	-1.9
CL	C2	13.7	11.1	33.90	42.10	-2.6
CL	J1	13.7	9.1	37.87	44.60	-4.6
CL	F3	13.8	12.7	35.97	48.13	-1.1
CL	F5	14	14	27.10	32.80	0
CL	F4	14.6	13.4	26.70	31.97	-1.2
SL	M1	7.1	8	37.37	43.97	0.9
SL	L1	8.4	8.5	45.93	50.23	0.1
SL	L1	8.4	8.8	46.17	50.67	0.4
SL	L1	8.5	7.5	50.23	62.67	-1
SL	L5	8.6	8.6	55.77	60.73	0
SL	L1	8.8	7.7	50.67	63.40	-1.1
SL	L5	9	8.9	60.17	59.83	-0.1
SL	L5	9.2	9	50.00	60.17	-0.2
SL	H1	9.5	8.4	36.67	39.60	-1.1
SL	L5	9.8	8.6	48.87	55.77	-1.2

SL	L4	9.8	11.4	44.30	50.63	1.6
SL	L2	9.9	13.3	35.97	34.67	3.4
SL	B1	10.2	13	33.33	34.63	2.8
SL	H4	10.3	11.8	40.77	38.73	1.5
SL	H1	10.4	9.5	31.97	36.67	-0.9
SL	H3	11	11.6	38.83	38.77	0.6
SL	L4	11.1	8.6	46.77	43.93	-2.5
SL	H1	11.2	12.5	33.77	37.37	1.3
SL	L3	11.3	12.7	33.17	35.20	1.4
SL	B4	11.3	12.9	39.13	40.23	1.6
SL	L2	11.5	11.5	29.37	41.00	0
SL	L2	11.5	7	41.00	40.80	-4.5
SL	H3	11.6	9	38.77	43.40	-2.6
SL	B5	11.7	12.4	26.15	37.10	0.7
SL	L4	11.7	11.1	39.47	46.77	-0.6
SL	L3	11.7	8.9	42.33	47.83	-2.8
SL	H3	11.7	11.8	31.20	40.47	0.1
SL	L3	11.8	11.7	32.33	42.33	-0.1
SL	H2	11.8	13.2	36.87	33.33	1.4
SL	H4	11.8	9.9	38.73	44.93	-1.9
SL	H5	11.8	11.3	35.30	29.30	-0.5
SL	B2	11.9	12.4	35.23	30.10	0.5
SL	H5	12.1	13.3	29.03	34.23	1.2
SL	H4	12.1	12.2	28.23	35.03	0.1
SL	B1	12.2	10.4	33.77	37.47	-1.8
SL	B4	12.3	11.3	35.00	39.13	-1
SL	B2	12.4	9.6	30.10	48.23	-2.8
SL	B5	12.4	9.1	37.10	36.30	-3.3
SL	L4	12.5	9.8	29.30	44.30	-2.7
SL	H1	12.5	10.9	37.37	38.87	-1.6
SL	B3	12.7	14.1	33.07	30.93	1.4
SL	B4	12.7	9.5	37.07	38.00	-3.2
SL	L3	12.7	10.6	35.20	48.73	-2.1
SL	B1	12.8	12.2	28.90	33.77	-0.6
SL	B3	12.9	9.6	37.50	42.50	-3.3
SL	B1	13	9.3	34.63	42.20	-3.7
SL	B5	13.1	8.9	28.00	43.43	-4.2
SL	H2	13.2	12.6	33.33	35.80	-0.6
SL	H5	13.3	9.3	34.23	38.65	-4
SL	L2	13.3	9	34.67	47.57	-4.3
SL	B5	13.5	13.1	37.30	28.00	-0.4
SL	M5	13.8	11.7	36.07	29.03	-2.1
SL	H3	13.9	11.7	30.97	31.20	-2.2
SL	B2	13.9	12.2	30.80	39.73	-1.7
SL	B4	14	12.7	28.93	37.07	-1.3
SL	B3	14.1	11.3	30.93	40.67	-2.8

Change is vol soil moist	Effective irrigation	X x Y
0.17	-2.20	88.11
0.67	-1.06	91.91
3.60	13.00	80.99
6.67	13.00	76.26
-3.10	-3.10	109.04
2.73	14.10	86.48
-3.73	-0.90	115.9
-0.63	-2.20	97
-0.43	1.75	100.88
1.40	14.10	78.57
7.87	13.00	84.39
11.23	13.00	93.12
4.13	13.00	92.12
13.73	5.80	98.01
8.63	14.10	84.15
10.93	13.00	88.11
3.70	14.10	80
7.67	13.00	83
0.13	14.10	95.95
3.97	14.10	82.82
5.97	13.00	136.35
0.80	-2.20	103.02
6.97	5.80	109.14
7.57	14.10	98.94
5.63	2.15	115.36
3.87	13.00	99.91
4.73	-2.20	98.7
0.60	14.10	88.2
-1.63	13.00	127.05
0.27	-0.66	128.26
4.83	13.00	97.52
-0.33	-2.20	128.4
-4.43	-2.20	115.56
5.07	-2.20	145.52
3.63	-2.20	117.7
8.20	5.80	99.51
0.77	0.61	129.47
4.50	13.00	110.21
9.13	13.00	99.51
-6.47	-2.20	113.4
-9.90	-2.20	162
1.97	-2.20	110.16
2.47	14.10	106.92
7.15	14.10	109.08
-1.27	-2.20	143.88
1.47	-2.20	105.73
4.30	1.62	122.08
-5.98	8.11	113.3
15.53	5.80	106.7
12.20	5.80	110
-0.60	-0.53	127.6
3.90	14.10	90.2

9.30	5.80	123.21
14.07	5.80	108.78
3.00	13.00	98.79
-0.73	-2.20	145.6
0.47	-2.20	113.12
13.20	5.80	118.72
1.83	0.81	102.83
-2.60	5.50	159.6
-4.27	-2.20	123.12
8.67	5.80	110.58
10.40	14.10	106.02
7.00	14.10	92.34
13.53	13.00	117.42
-8.67	4.96	133.4
2.57	1.98	109.25
-2.20	-2.20	131.1
1.13	13.00	120.75
6.92	13.00	118.45
-0.10	-2.20	132.24
-0.93	-2.20	141.52
8.60	1.42	117.16
7.73	13.00	132.21
12.23	5.80	126.26
5.03	5.80	109.2
5.77	5.80	136.8
2.63	14.10	100.8
0.57	13.00	110.4
6.77	13.00	122.21
7.83	1.08	129.32
15.33	5.80	142.74
6.60	2.96	132.98
9.63	14.10	102.48
9.73	2.62	131.61
-0.83	-2.13	147.6
1.60	14.10	119.31
6.77	14.10	128.52
5.37	13.00	119.7
-8.30	-2.20	171.45
6.50	5.80	152.4
2.45	5.50	139.52
-2.63	9.58	156.16
11.60	5.80	154.88
-0.70	13.00	139.52
1.60	14.10	123.5
2.50	1.01	161.13
12.27	5.80	150.65
10.67	14.10	141.24
3.17	1.60	146.3
-4.27	1.34	191.62
2.43	0.41	125.96
2.50	14.10	156.6
7.70	5.80	184.96
8.60	5.80	140.08
7.50	14.10	160.48
-1.20	13.00	187.68

0.00	-2.20	173.88
3.90	2.55	154
-2.33	-1.40	185.9
6.87	13.00	111.55
4.07	-0.99	107.91
7.43	0.81	136.5
15.70	14.10	80.25
3.63	13.00	124.3
-2.67	-2.20	132.21
1.90	13.00	107.35
12.27	14.10	135.66
3.50	-2.20	140.36
0.00	-2.20	132.24
8.87	14.10	121.8
-3.87	1.62	134.55
9.03	14.10	122.85
-1.77	13.00	130.98
5.60	13.00	132.16
11.00	-2.20	139.2
1.43	1.48	157.3
8.83	14.10	114.95
4.53	-2.20	167.14
-2.13	-2.20	131.61
1.20	5.80	173.88
8.87	14.10	152.4
-2.40	-0.13	126.72
3.50	5.80	151.04
6.23	5.80	145.77
-0.27	5.80	125.13
3.73	13.00	147.06
6.53	-2.20	178.1
4.83	5.80	153.4
-1.17	-0.79	128.7
0.37	-0.66	136.5
7.40	5.80	145.2
6.70	2.76	166.25
0.03	13.00	170.24
-1.42	2.42	178.22
6.33	-0.86	176.88
4.10	5.03	159.12
8.20	14.10	152.07
6.73	14.10	124.67
12.17	13.00	175.26
5.70	0.88	196
5.27	0.14	195.64
6.60	13	56.8
4.30	-2.2	71.4
4.50	5.8	73.92
12.43	14.1	63.75
4.97	14.1	73.96
12.73	13	67.76
-0.33	13	80.1
10.17	5.8	82.8
2.93	13	79.8
6.90	-2.2	84.28

6.33	14.1	111.72
-1.30	-2.2	131.67
1.30	-2.2	132.6
-2.03	-2.2	121.54
4.70	5.8	98.8
-0.07	-2.2	127.6
-2.83	13	95.46
3.60	-2.2	140
2.03	5.8	143.51
1.10	14.1	145.77
11.63	5.8	132.25
-0.20	13	80.5
4.63	14.1	104.4
10.95	5.8	145.08
7.30	5.8	129.87
5.50	14.1	104.13
9.27	13	138.06
10.00	-2.2	138.06
-3.53	5.8	155.76
6.20	14.1	116.82
-6.00	13	133.34
-5.13	-2.2	147.56
5.20	-2.2	160.93
6.80	13	147.62
3.70	13	126.88
4.13	-2.2	138.99
18.13	14.1	119.04
-0.80	13	112.84
15.00	-2.2	122.5
1.50	14.1	136.25
-2.13	5.8	179.07
0.93	13	120.65
13.53	13	134.62
4.87	5.8	156.16
5.00	14.1	123.84
7.57	14.1	120.9
15.43	14.1	116.59
2.47	13	166.32
4.42	14.1	123.69
12.90	14.1	119.7
-9.30	-2.2	176.85
-7.03	13	161.46
0.23	5.8	162.63
8.93	13	169.58
8.13	5.8	177.8
9.73	13	159.33
		26252.67

Date	Location	Distance from running rail (1-5)	Depth (1-3)	Weight of water (g)
16/08/2005	A	1	3	10.91
16/08/2005	A	1	2	11.94
16/08/2005	A	1	1	6.21
16/08/2005	A	2	3	11.47
16/08/2005	A	2	2	13.34
16/08/2005	A	2	1	10.76
16/08/2005	A	3	3	11.99
16/08/2005	A	3	2	12.99
16/08/2005	A	3	1	9.99
16/08/2005	A	4	3	13.62
16/08/2005	A	4	2	9.95
16/08/2005	A	4	1	7.46
16/08/2005	A	5	3	10.33
16/08/2005	A	5	2	9.31
16/08/2005	A	5	1	8.70
16/08/2005	C	1	3	8.48
16/08/2005	C	1	2	6.71
16/08/2005	C	1	1	9.32
16/08/2005	C	2	3	9.65
16/08/2005	C	2	2	7.84
16/08/2005	C	2	1	5.23
16/08/2005	C	3	3	9.98
16/08/2005	C	3	2	8.07
16/08/2005	C	3	1	7.49
16/08/2005	C	4	3	10.28
16/08/2005	C	4	2	6.72
16/08/2005	C	4	1	6.94
16/08/2005	C	5	3	8.45
16/08/2005	C	5	2	8.16
16/08/2005	C	5	1	6.25
16/08/2005	D	1	3	11.84
16/08/2005	D	1	2	10.21
16/08/2005	D	1	1	6.84
16/08/2005	D	2	3	12.41
16/08/2005	D	2	2	8.28
16/08/2005	D	2	1	8.08
16/08/2005	D	3	3	8.72
16/08/2005	D	3	2	5.88
16/08/2005	D	3	1	8.22
16/08/2005	D	4	3	8.61
16/08/2005	D	4	2	8.12
16/08/2005	D	4	1	5.78
16/08/2005	D	5	3	7.08
16/08/2005	D	5	2	7.19
16/08/2005	D	5	1	6.42
16/08/2005	F	1	3	15.01
16/08/2005	F	1	2	13.42
16/08/2005	F	1	1	8.67
16/08/2005	F	2	3	12.7
16/08/2005	F	2	2	N/A
16/08/2005	F	2	1	9.95
16/08/2005	F	3	3	9.57

16/08/2005	F	3	2	11.45
16/08/2005	F	3	1	9.91
16/08/2005	F	4	3	15.87
16/08/2005	F	4	2	5.79
16/08/2005	F	4	1	6.77
16/08/2005	F	5	3	14.83
16/08/2005	F	5	2	7.72
16/08/2005	F	5	1	6.93
16/08/2005	G	1	3	13.00
16/08/2005	G	1	2	11.81
16/08/2005	G	1	1	10.23
16/08/2005	G	2	3	16.12
16/08/2005	G	2	2	13.55
16/08/2005	G	2	1	9.63
16/08/2005	G	3	3	10.95
16/08/2005	G	3	2	8.60
16/08/2005	G	3	1	8.64
16/08/2005	G	4	3	13.15
16/08/2005	G	4	2	9.46
16/08/2005	G	4	1	10.81
16/08/2005	G	5	3	11.89
16/08/2005	G	5	2	12.98
16/08/2005	G	5	1	7.17
17/08/2005	A	1	3	10.01
17/08/2005	A	1	2	10.44
17/08/2005	A	1	1	8.28
17/08/2005	A	2	3	10.88
17/08/2005	A	2	2	9.77
17/08/2005	A	2	1	8.25
17/08/2005	A	3	3	10.77
17/08/2005	A	3	2	7.5
17/08/2005	A	3	1	10.58
17/08/2005	A	4	3	11.33
17/08/2005	A	4	2	13.77
17/08/2005	A	4	1	8.36
17/08/2005	A	5	3	10.31
17/08/2005	A	5	2	9.16
17/08/2005	A	5	1	10.07
17/08/2005	C	1	3	7.36
17/08/2005	C	1	2	8.78
17/08/2005	C	1	1	6.95
17/08/2005	C	2	3	10.74
17/08/2005	C	2	2	7.73
17/08/2005	C	2	1	5.25
17/08/2005	C	3	3	9.14
17/08/2005	C	3	2	7.54
17/08/2005	C	3	1	5.94
17/08/2005	C	4	3	9.38
17/08/2005	C	4	2	7.2
17/08/2005	C	4	1	6.02
17/08/2005	C	5	3	9.32
17/08/2005	C	5	2	8
17/08/2005	C	5	1	7.39
17/08/2005	D	1	3	9.43
17/08/2005	D	1	2	9.68

17/08/2005	D	1	1	9.57
17/08/2005	D	2	3	10.01
17/08/2005	D	2	2	9.02
17/08/2005	D	2	1	7.92
17/08/2005	D	3	3	8.59
17/08/2005	D	3	2	6.46
17/08/2005	D	3	1	6.39
17/08/2005	D	4	3	8.05
17/08/2005	D	4	2	7.03
17/08/2005	D	4	1	6.4
17/08/2005	D	5	3	6.68
17/08/2005	D	5	2	3.81
17/08/2005	D	5	1	5.81
17/08/2005	F	1	3	9.84
17/08/2005	F	1	2	10.64
17/08/2005	F	1	1	7.98
17/08/2005	F	2	3	10.91
17/08/2005	F	2	2	7.54
17/08/2005	F	2	1	5.26
17/08/2005	F	3	3	10
17/08/2005	F	3	2	8.26
17/08/2005	F	3	1	8.83
17/08/2005	F	4	3	11.72
17/08/2005	F	4	2	8.03
17/08/2005	F	4	1	11.88
17/08/2005	F	5	3	10.24
17/08/2005	F	5	2	7.91
17/08/2005	F	5	1	6.61
17/08/2005	G	1	3	8.96
17/08/2005	G	1	2	6.48
17/08/2005	G	1	1	6.81
17/08/2005	G	2	3	9.17
17/08/2005	G	2	2	6.58
17/08/2005	G	2	1	8.61
17/08/2005	G	3	3	12.17
17/08/2005	G	3	2	11.49
17/08/2005	G	3	1	7.58
17/08/2005	G	4	3	11.94
17/08/2005	G	4	2	11.75
17/08/2005	G	4	1	7.73
17/08/2005	G	5	3	11.24
17/08/2005	G	5	2	7.52
17/08/2005	G	5	1	7.39
18/08/2005	A	1	3	11.17
18/08/2005	A	1	2	7.75
18/08/2005	A	1	1	9.5
18/08/2005	A	2	3	11.75
18/08/2005	A	2	2	9.03
18/08/2005	A	2	1	13.26
18/08/2005	A	3	3	12.51
18/08/2005	A	3	2	10.57
18/08/2005	A	3	1	12.1
18/08/2005	A	4	3	12.47
18/08/2005	A	4	2	10.24
18/08/2005	A	4	1	7.16

18/08/2005	A	5	3	11.06
18/08/2005	A	5	2	10.95
18/08/2005	A	5	1	11.43
18/08/2005	C	1	3	7.79
18/08/2005	C	1	2	9.64
18/08/2005	C	1	1	8.45
18/08/2005	C	2	3	10.19
18/08/2005	C	2	2	9.85
18/08/2005	C	2	1	7.09
18/08/2005	C	3	3	8.91
18/08/2005	C	3	2	7.31
18/08/2005	C	3	1	6.43
18/08/2005	C	4	3	9.8
18/08/2005	C	4	2	8.33
18/08/2005	C	4	1	6.39
18/08/2005	C	5	3	11.24
18/08/2005	C	5	2	10.44
18/08/2005	C	5	1	7.68
18/08/2005	D	1	3	10.16
18/08/2005	D	1	2	7.26
18/08/2005	D	1	1	8.41
18/08/2005	D	2	3	9.91
18/08/2005	D	2	2	6.27
18/08/2005	D	2	1	7.18
18/08/2005	D	3	3	7.55
18/08/2005	D	3	2	7.59
18/08/2005	D	3	1	7.1
18/08/2005	D	4	3	7.4
18/08/2005	D	4	2	8.18
18/08/2005	D	4	1	5.36
18/08/2005	D	5	3	9.53
18/08/2005	D	5	2	6.48
18/08/2005	D	5	1	6.7
18/08/2005	F	1	3	10.38
18/08/2005	F	1	2	8.44
18/08/2005	F	1	1	7.2
18/08/2005	F	2	3	13.97
18/08/2005	F	2	2	14.1
18/08/2005	F	2	1	11.56
18/08/2005	F	3	3	14.85
18/08/2005	F	3	2	10.61
18/08/2005	F	3	1	11.62
18/08/2005	F	4	3	13.03
18/08/2005	F	4	2	10.48
18/08/2005	F	4	1	7.78
18/08/2005	F	5	3	13.14
18/08/2005	F	5	2	7.08
18/08/2005	F	5	1	11.34
18/08/2005	G	1	3	9.4
18/08/2005	G	1	2	7.69
18/08/2005	G	1	1	9.69
18/08/2005	G	2	3	9.28
18/08/2005	G	2	2	4.82
18/08/2005	G	2	1	8.41
18/08/2005	G	3	3	10.7

18/08/2005	G	3	2	11.75
18/08/2005	G	3	1	7.04
18/08/2005	G	4	3	10.73
18/08/2005	G	4	2	7.32
18/08/2005	G	4	1	9.32
18/08/2005	G	5	3	12.3
18/08/2005	G	5	2	10.13
18/08/2005	G	5	1	7.81

Weight of water (g/g)	Volumetric soil moisture content (%)	Irrigation (mm)	ETo
0.31	0.11	4.82	
0.38	0.12		
0.18	0.06		
0.30	0.11	7.70	
0.43	0.13		
0.50	0.11		
0.28	0.12	11.78	
0.44	0.13		
0.49	0.10		
0.30	0.14	10.31	
0.40	0.10		
0.42	0.07		
0.24	0.10	7.70	
0.33	0.09		
0.37	0.09		
0.23	0.08	7.23	
0.21	0.07		
0.30	0.09		
0.25	0.10	14.86	
0.23	0.08		
0.25	0.05		
0.30	0.10	12.05	
0.27	0.08		
0.29	0.07		
0.29	0.10	8.10	
0.21	0.07		
0.22	0.07		
0.27	0.08	4.62	
0.36	0.08		
0.33	0.06		
0.27	0.12	6.16	
0.34	0.10		
0.35	0.07		
0.28	0.12	7.16	
0.28	0.08		
0.33	0.08		
0.24	0.09	3.80	
0.25	0.06		
0.29	0.08		
0.21	0.09	3.54	
0.19	0.08		
0.26	0.06		
0.17	0.07	3.68	
0.16	0.07		
0.19	0.06		
0.42	0.15	3.68	
0.47	0.13		
0.48	0.09		
0.30	0.13	3.01	
N/A	N/A		
0.32	0.10		
0.40	0.10	2.07	

0.43	0.11	
0.45	0.10	
0.44	0.16	2.34
0.50	0.06	
0.48	0.07	
0.41	0.15	3.08
0.41	0.08	
0.39	0.07	
0.25	0.13	3.01
0.28	0.12	
0.37	0.10	
0.34	0.16	3.28
0.38	0.14	
0.46	0.10	
0.26	0.11	4.18
0.30	0.09	
0.35	0.09	
0.30	0.13	3.21
0.37	0.09	
0.37	0.11	
0.24	0.12	2.61
0.31	0.13	
0.30	0.07	
0.28	0.10	4.01
0.38	0.10	
0.35	0.08	
0.33	0.11	5.02
0.36	0.10	
0.38	0.08	
0.29	0.11	6.36
0.36	0.08	
0.49	0.11	
0.30	0.11	5.55
0.42	0.14	
0.47	0.08	
0.32	0.10	5.95
0.39	0.09	
0.31	0.10	
0.21	0.07	5.02
0.24	0.09	
0.30	0.07	
0.24	0.11	6.29
0.24	0.08	
0.26	0.05	
0.27	0.09	7.09
0.22	0.08	
0.21	0.06	
0.27	0.09	5.89
0.24	0.07	
0.24	0.06	
0.28	0.09	6.16
0.31	0.08	
0.24	0.07	
0.24	0.09	5.15
0.30	0.10	

0.36	0.10	
0.26	0.10	4.82
0.31	0.09	
0.37	0.08	
0.21	0.09	2.87
0.17	0.06	
0.26	0.06	
0.20	0.08	2.00
0.19	0.07	
0.22	0.06	
0.19	0.07	0.60
0.15	0.04	
0.16	0.06	
0.37	0.10	2.61
0.44	0.11	
0.31	0.08	
0.33	0.11	2.74
0.39	0.08	
0.42	0.05	
0.37	0.10	2.41
0.34	0.08	
0.40	0.09	
0.45	0.12	2.54
0.44	0.08	
0.49	0.12	
0.39	0.10	2.14
0.37	0.08	
0.44	0.07	
0.25	0.09	2.34
0.29	0.06	
0.35	0.07	
0.25	0.09	2.74
0.28	0.07	
0.31	0.09	
0.30	0.12	2.50
0.40	0.11	
0.42	0.08	
0.31	0.12	1.27
0.36	0.12	
0.31	0.08	
0.26	0.11	0.30
0.33	0.08	
0.24	0.07	
0.34	0.11	N/A
0.36	0.08	
0.34	0.10	
0.35	0.12	N/A
0.43	0.09	
0.46	0.13	
0.29	0.13	N/A
0.45	0.11	
0.48	0.12	
0.43	0.12	N/A
0.45	0.10	
0.48	0.07	

0.33	0.11	N/A
0.40	0.11	
0.42	0.11	
0.20	0.08	N/A
0.28	0.10	
0.32	0.08	
0.27	0.10	N/A
0.31	0.10	
0.35	0.07	
0.30	0.09	N/A
0.26	0.07	
0.31	0.06	
0.27	0.10	N/A
0.23	0.08	
0.25	0.06	
0.31	0.11	N/A
0.36	0.10	
0.36	0.08	
0.24	0.10	N/A
0.30	0.07	
0.34	0.08	
0.23	0.10	N/A
0.21	0.06	
0.28	0.07	
0.25	0.08	N/A
0.26	0.08	
0.30	0.07	
0.19	0.07	N/A
0.18	0.08	
0.24	0.05	
0.22	0.10	N/A
0.19	0.06	
0.23	0.07	
0.40	0.10	N/A
0.41	0.08	
0.38	0.07	
0.50	0.14	N/A
0.55	0.14	
0.71	0.12	
0.50	0.15	N/A
0.51	0.11	
0.58	0.12	
0.45	0.13	N/A
0.44	0.10	
0.50	0.08	
0.44	0.13	N/A
0.45	0.07	
0.48	0.11	
0.29	0.09	N/A
0.30	0.08	
0.38	0.10	
0.23	0.09	N/A
0.28	0.05	
0.35	0.08	
0.27	0.11	N/A

0.35	0.12	
0.34	0.07	
0.30	0.11	N/A
0.32	0.07	
0.41	0.09	
0.30	0.12	N/A
0.36	0.10	
0.23	0.08	

Effective irrigatio	Penetrate	Shear	Going
	12.9	11.0	12.3
	12.7	13.0	12.8
	12.7	13.1	12.8
	11.7	9.7	11.0
	11.4	11.5	11.4
	14.9	11.0	13.6
	15.0	10.7	15.0
	15.0	11.9	15.0
	15.0	9.6	15.0
	13.6	13.0	13.4
	15.0	9.9	15.0
	11.4	11.6	11.5
	13.4	13.0	13.3
	12.8	14.5	13.4
	14.9	13.9	14.6
	11.6	13	12.1
	10.4	10.7	10.5
	11.9	14.6	12.8

14.7	14.4	14.6
14.4	13.3	14
10.7	12.4	11.3
12.4	11.9	12.2
11.6	11.3	11.5
14.3	10.6	13.1
14.5	11.2	13.4
10.7	10.7	10.7
11.4	9.9	10.9
12.7	11.1	12.2
10	11	10.3
14.9	12.1	14
12.4	10.3	11.7
15	12.1	15
13.2	12.5	13
13.2	10.8	12.4
14.1	11.7	13.3
10	9.2	9.7

12.2	10.5	11.6
10.8	11.5	11
14.9	13	14.3
15	13.3	15
13.5	12	13
13.7	11.5	13
9.1	11.4	9.9
13.1	14	13.4
14	13.9	14
9.2	9	9.1
11.4	8.9	10.6
9.6	9.3	9.5
12.7	11.5	12.3
9.6	9	9.4
12.2	11.9	12.1
11	11.6	11.2
10.3	12.2	10.9
11.3	11	11.2

11.2	10.7	11
11.5	11.6	11.5
11.8	10.9	11.5
15	13.6	15
15	11.4	15
12.6	12.4	12.5
10.9	9.5	10.4
9.6	11	10.1
12.2	10.3	11.6
12.2	14.7	13
15	13.9	15
9.6	10.5	9.9
9.9	11.8	10.5
10.7	11.3	10.9
13.3	13.1	13.2
15	14.6	15
9.9	10.4	10.1
12.3	11.7	12.1
12.5	11.5	12.2

12.5	11.1	12
11.1	12.5	11.6

Soil type	Location	Going a	Going b	Change in going	Actual effective irrigation (mm)
SL	L1	7.7	8.9	1.2	14.20
SL	B3	12.1	10.8	-1.3	14.20
SL	H1	11.5	10.3	-1.2	14.20
SCL	K2	11.4	10	-1.4	14.20
CL	F5	14	14.9	0.9	5.85
SL	M5	13.4	14.5	1.1	5.87
SCL	D5	11.4	12.9	1.5	7.02
CL	F3	9.4	8.6	-0.8	14.20
SL	B5	12.2	9.9	-2.3	14.20
CL	J2	13.1	14.3	1.2	5.35
SCL	E1	13.4	10.4	-3	14.20
SCL	E3	12.4	13.9	1.5	5.35
CL	J3	13.4	14.2	0.8	5.68
SL	B1	13.2	10.2	-3	14.20
SCL	K4	11.6	9.4	-2.2	14.20
SCL	A2	11.4	9.3	-2.1	14.20
SL	L3	12	9.4	-2.6	14.20
CL	J1	12	13.4	1.4	5.18
SL	M1	11.5	11.1	-0.4	9.70
SCL	K5	11.4	8.9	-2.5	14.20
CL	F2	9.6	10.9	1.3	7.86
SL	M5	12.7	9.5	-3.2	14.20
CL	C3	12.1	13.3	1.2	5.17
SL	M2	13.1	13.6	0.5	5.50
SCL	E2	14.2	14.5	0.3	4.51
CL	J1	14.3	14.1	-0.2	5.50
SCL	A2	11.1	10.6	-0.5	9.70
SL	B5	9.5	12.4	2.9	4.00
SCL	G3	12.8	9.3	-3.5	14.20
CL	J3	14.2	13.9	-0.3	5.50
SL	L5	12	8.9	-3.1	14.20
SL	M2	12	10.7	-1.3	10.20
SCL	K1	10.2	8	-2.2	14.20
SL	B4	13.2	14	0.8	4.00
SL	B1	13.5	12.9	-0.6	6.69
CL	F1	10.4	8	-2.4	14.20
CL	C5	11.7	8.6	-3.1	14.20
SL	L4	13.8	14.1	0.3	4.00
CL	C5	14.2	12	-2.2	9.03
SCL	G2	11.7	12.3	0.6	5.68
SL	B2	12.6	10.9	-1.7	9.70
SCL	A2	11.5	12.9	1.4	4.00
SCL	A5	11.6	8.3	-3.3	14.20
CL	F4	12.8	14.6	1.8	1.5
SCL	A5	13.1	13.6	0.5	4.00
SCL	D3	12	13.8	1.8	2.35
SCL	G2	9.1	11.7	2.6	3.86
SCL	E1	14.2	13.4	-0.8	5.50
CL	J1	14.1	9.4	-4.7	14.20
SL	L2	10.9	7.8	-3.1	14.20
SCL	A3	10.5	12.2	1.7	4.00
SCL	D2	11.1	13.6	2.5	1.50
SCL	A5	12.6	10.9	-1.7	9.03
SCL	A3	8.1	9	0.9	8.36

SCL	A3	13.4	12.8	-0.6	5.50
SCL	A4	10.6	10.2	-0.4	8.20
SL	H1	9.5	12.7	3.2	1.49
SCL	D1	12.4	12	-0.4	6.02
SCL	G4	12	8.1	-3.9	14.20
SL	B3	13	11.2	-1.8	8.36
SCL	D5	11.6	13.6	2	1.50
SL	L5	12.1	12	-0.1	5.50
SCL	G3	11.4	12.4	1	3.86
SCL	G3	12.4	12.5	0.1	4.68
SCL	A1	13.9	13.5	-0.4	4.00
SL	L2	11	11.5	0.5	5.18
CL	C5	14.8	14.2	-0.6	3.19
CL	J2	12.8	13.1	0.3	3.36
SCL	E1	13.7	12.3	-1.4	6.02
SL	L3	14.3	13	-1.3	5.02
SCL	A4	12.7	12	-0.7	5.50
SL	B5	13.3	12.2	-1.1	5.50
SL	L2	12.4	12.4	0	4.00
SL	L1	6.4	7.9	1.5	7.53
CL	F1	10.8	10.3	-0.5	6.86
SL	M2	10.7	11.3	0.6	4.50
SCL	D2	13.2	8.1	-5.1	14.20
SL	B2	13.3	12.6	-0.7	4.36
SCL	G1	12.3	11.6	-0.7	5.50
SCL	D4	12.1	13.3	1.2	1.50
CL	C4	13.7	12.9	-0.8	4
SCL	E2	13.8	14.2	0.4	1.18
SL	M2	13.6	8.2	-5.4	14.20
SL	L3	14.2	13.1	-1.1	4.00
CL	C4	12.5	12.1	-0.4	4.33
SCL	G4	13.5	12	-1.5	5.50
SCL	A3	12.8	7.7	-5.1	14.20
SCL	D1	12.8	7.7	-5.1	14.20
CL	F1	11.4	10.8	-0.6	5.70
CL	C1	13.4	12.7	-0.7	3.50
SCL	K5	12.6	11.4	-1.2	5.50
SCL	E3	13.7	13.7	0	1.50
SL	L5	10.2	11.7	1.5	2.16
SL	L5	11.4	10.2	-1.2	6.69
CL	F4	13.2	11.6	-1.6	5.50
SCL	A1	14.3	13	-1.3	3.52
SCL	A2	12.9	11.4	-1.5	5.50
SCL	K2	10	11.8	1.8	1.50
SL	M1	13.7	11.5	-2.2	6.04
SCL	K5	9.9	11.7	1.8	1.50
SCL	A1	9.8	12.4	2.6	-0.19
CL	C2	12	10.8	-1.2	5.67
SCL	A5	13.6	11.6	-2	5.50
SCL	A2	11.5	11.1	-0.4	4.36
SCL	K1	10.7	10.2	-0.5	5.50
CL	F1	12.2	12.7	0.5	1.5
SCL	D2	12.1	10.9	-1.2	5.35
CL	F4	12.4	12.4	0	2.35
CL	F2	11	10.3	-0.7	5.50

SCL	A4	11.7	11.3	-0.4	4.00
SL	H3	13.6	13.3	-0.3	1.50
CL	F3	13	13	0	1.5
CL	C5	12	10.1	-1.9	6.84
SL	L2	12.4	10.9	-1.5	5.50
SCL	G3	14.3	13.6	-0.7	1.50
SCL	D2	10.9	12.2	1.3	0.98
CL	F3	12.4	11.6	-0.8	3.86
CL	F5	13.3	14	0.7	-0.49
SCL	K2	10.5	10	-0.5	5.37
SCL	D3	13.8	10.6	-3.2	7.53
SCL	A5	13.9	12.6	-1.3	3.19
SL	B1	12.9	13.8	0.9	-0.52
SCL	K4	14	11.6	-2.4	5.50
SL	H1	13.8	11.5	-2.3	5.50
SCL	K5	14.2	13.5	-0.7	1.50
CL	J2	13.2	13	-0.2	1.5
SCL	E1	13.9	13.7	-0.2	0.68
SL	H3	13.1	13.7	0.6	-0.19
SL	B4	13.2	11.1	-2.1	5.50
SL	M5	14.5	9.5	-5	10.37
SCL	A5	10.9	12	1.1	0.98
CL	J1	14.5	12	-2.5	4.70
SCL	D3	12.7	10.7	-2	5.50
CL	J1	14.2	13.2	-1	1.5
SCL	A3	9	11.1	2.1	0.48
SCL	K1	8.8	11.7	2.9	-1.19
CL	F1	12.6	10.4	-2.2	5.50
SL	B3	11.4	10.5	-0.9	4.00
SCL	D1	12	12.2	0.2	0.82
SCL	D5	12.9	13.9	1	-2.03
SCL	E1	12.7	12.2	-0.5	1.50
SL	L3	13	13.7	0.7	-1.53
SCL	D4	13.8	10.9	-2.9	5.50
SCL	K5	11	9.9	-1.1	4.70
CL	J1	13.2	14.8	1.6	-3.8
SL	L2	11.5	12.1	0.6	0.32
SCL	D3	11.1	11.3	0.2	1.50
SL	B2	10.9	11.7	0.8	0.32
CL	F2	13.9	12.6	-1.3	1.5
SL	L4	14.5	14.1	-0.4	-1.19
SCL	D1	12.9	12.4	-0.5	0.85
SCL	A1	13	9.8	-3.2	6.69
SL	M1	11.1	10.4	-0.7	3.33
SL	B2	10.9	10	-0.9	4.00
SCL	K3	9.8	11.7	1.9	-1.02
SCL	K1	9.1	9.2	0.1	3.69
SL	B2	12.7	10.1	-2.6	5.50
SCL	G1	10.5	8.9	-1.6	5.70
SCL	G2	12.9	10.1	-2.8	5.50
SCL	A4	12.1	10.6	-1.5	3.52
SCL	K4	9.8	11.7	1.9	-1.36
SCL	K4	8.7	9.8	1.1	1.50
SL	L5	9.2	12.4	3.2	-3.80
SL	B3	11.2	11.6	0.4	-0.02

SCL	K3	10.6	9.1	-1.5	4.86
CL	F3	11.9	9.4	-2.5	5.50
SCL	E2	12.1	13.7	1.6	-3.80
SL	B1	13.8	14.5	0.7	-3.80
CL	C1	13.2	10	-3.2	5.50
SCL	K3	9.1	9.8	0.7	1.50
SL	L1	8.5	7.7	-0.8	5.50
SL	B4	10.5	11.6	1.1	-1.02
CL	F1	10.3	11.5	1.2	-1.02
SCL	K3	13.4	10	-3.4	5.50
SCL	E1	12.3	12.5	0.2	-1.19
SCL	E2	14.1	12.1	-2	1.50
SL	L1	9.2	8.6	-0.6	4.00
SCL	K4	10.8	10.4	-0.4	1.50
CL	F1	12.7	13.7	1	-3.8
SL	M2	14.5	14.5	0	-3.80
CL	F2	11.6	9.6	-2	3.86
SCL	A2	10.6	10.3	-0.3	1.15
SL	L4	14.1	14.2	0.1	-3.80
SCL	G1	12.8	11.1	-1.7	1.50
SL	B2	10	11.9	1.9	-3.80
SCL	A5	13.6	13.5	-0.1	-3.80
SL	L2	12.4	12.7	0.3	-3.80

Predicted effective irrigation (mm)	Difference between actual and predicted
6.84	-7.36
7.30	-6.90
7.77	-6.43
8.32	-5.88
0.25	-5.60
0.50	-5.37
1.92	-5.10
9.30	-4.90
9.39	-4.81
0.63	-4.72
9.56	-4.64
0.77	-4.58
1.16	-4.52
9.79	-4.41
9.86	-4.34
9.87	-4.33
10.29	-3.91
1.45	-3.73
6.00	-3.70
10.75	-3.45
4.43	-3.43
10.81	-3.39
1.78	-3.39
2.17	-3.33
1.35	-3.16
2.34	-3.16
6.68	-3.02
1.01	-2.99
11.35	-2.85
2.67	-2.83
11.39	-2.81
7.41	-2.79
11.47	-2.73
1.39	-2.61
4.14	-2.55
11.68	-2.52
11.73	-2.47
1.81	-2.19
6.87	-2.16
3.56	-2.12
7.61	-2.10
2.03	-1.97
12.29	-1.91
-0.35	-1.85
2.17	-1.83
0.57	-1.79
2.14	-1.72
3.78	-1.72
12.51	-1.69
12.66	-1.54
2.51	-1.49
0.06	-1.44
7.61	-1.43
7.04	-1.32

4.26	-1.24
7.04	-1.16
0.35	-1.14
4.97	-1.05
13.16	-1.04
7.37	-1.00
0.58	-0.92
4.65	-0.85
3.02	-0.84
3.86	-0.82
3.24	-0.76
4.59	-0.59
2.65	-0.54
2.96	-0.40
5.68	-0.34
4.77	-0.25
5.28	-0.22
5.48	-0.02
4.08	0.08
7.67	0.14
7.03	0.17
4.71	0.21
14.43	0.23
4.59	0.23
5.74	0.24
1.78	0.28
4.35	0.35
1.59	0.41
14.63	0.43
4.44	0.44
4.85	0.52
6.13	0.63
14.89	0.69
14.89	0.69
6.56	0.86
4.48	0.98
6.50	1.00
2.59	1.09
3.30	1.14
7.88	1.19
6.70	1.20
4.77	1.24
6.82	1.32
2.87	1.37
7.45	1.41
2.98	1.48
1.33	1.52
7.19	1.52
7.12	1.62
6.00	1.64
7.14	1.64
3.21	1.71
7.08	1.73
4.08	1.73
7.24	1.74

5.77	1.77
3.36	1.86
3.39	1.89
8.74	1.89
7.40	1.90
3.44	1.94
2.94	1.95
5.85	1.99
1.50	1.99
7.37	2.01
9.54	2.01
5.23	2.04
1.52	2.04
7.54	2.04
7.55	2.05
3.56	2.06
3.60	2.10
2.80	2.12
1.95	2.14
7.80	2.30
12.71	2.34
3.38	2.39
7.19	2.49
8.15	2.65
4.22	2.72
3.35	2.87
1.82	3.01
8.71	3.21
7.22	3.22
4.10	3.28
1.30	3.33
4.84	3.34
1.85	3.37
8.88	3.38
8.12	3.43
-0.37	3.43
3.79	3.48
5.14	3.64
4.04	3.73
5.23	3.73
2.55	3.74
4.61	3.77
10.46	3.77
7.12	3.80
7.80	3.80
2.88	3.90
7.66	3.97
9.48	3.98
9.80	4.10
9.69	4.19
7.74	4.22
2.88	4.24
5.91	4.41
0.70	4.50
4.58	4.60

9.47	4.60
10.18	4.68
0.89	4.69
0.93	4.73
10.23	4.73
6.33	4.83
10.34	4.84
3.84	4.86
3.85	4.87
10.44	4.94
3.76	4.95
6.54	5.04
9.09	5.09
6.81	5.31
1.53	5.33
1.67	5.47
9.42	5.56
6.82	5.66
1.91	5.71
7.38	5.88
2.65	6.45
2.92	6.72
3.42	7.22

Date	Location	Irrigation applied (ml)	Irrigation (mm)	Rainfall (mm)	ETo (mm)
21/06/2006	A1		7.50	0.2	3.7
21/06/2006	A2		7.50	0.2	3.7
21/06/2006	A3		7.50	0.2	3.7
21/06/2006	A4		7.50	0.2	3.7
21/06/2006	A5		7.50	0.2	3.7
21/06/2006	B1		7.50	0.2	3.7
21/06/2006	B2		7.50	0.2	3.7
21/06/2006	B3		7.50	0.2	3.7
21/06/2006	B4		7.50	0.2	3.7
21/06/2006	B5		7.50	0.2	3.7
21/06/2006	C1		7.50	0.2	3.7
21/06/2006	C2		7.50	0.2	3.7
21/06/2006	C3		7.50	0.2	3.7
21/06/2006	C4		7.50	0.2	3.7
21/06/2006	C5		7.50	0.2	3.7
21/06/2006	D1		5.00	0.2	3.7
21/06/2006	D2		5.00	0.2	3.7
21/06/2006	D3		5.00	0.2	3.7
21/06/2006	D4		5.00	0.2	3.7
21/06/2006	D5		5.00	0.2	3.7
21/06/2006	E1		5.00	0.2	3.7
21/06/2006	E2		5.00	0.2	3.7
21/06/2006	E3		5.00	0.2	3.7
21/06/2006	E4		5.00	0.2	3.7
21/06/2006	E5		5.00	0.2	3.7
21/06/2006	F1		5.00	0.2	3.7
21/06/2006	F2		5.00	0.2	3.7
21/06/2006	F3		5.00	0.2	3.7
21/06/2006	F4		5.00	0.2	3.7
21/06/2006	F5		5.00	0.2	3.7
21/06/2006	G1		5.00	0.2	3.7
21/06/2006	G2		5.00	0.2	3.7
21/06/2006	G3		5.00	0.2	3.7
21/06/2006	G4		5.00	0.2	3.7
21/06/2006	G5		5.00	0.2	3.7
21/06/2006	H1		5.00	0.2	3.7
21/06/2006	H2		5.00	0.2	3.7
21/06/2006	H3		5.00	0.2	3.7
21/06/2006	H4		5.00	0.2	3.7
21/06/2006	H5		5.00	0.2	3.7
21/06/2006	I1		5.00	0.2	3.7
21/06/2006	I2		5.00	0.2	3.7
21/06/2006	I3		5.00	0.2	3.7
21/06/2006	I4		5.00	0.2	3.7
21/06/2006	I5		5.00	0.2	3.7
21/06/2006	J1		5.00	0.2	3.7
21/06/2006	J2		5.00	0.2	3.7
21/06/2006	J3		5.00	0.2	3.7
21/06/2006	J4		5.00	0.2	3.7
21/06/2006	J5		5.00	0.2	3.7
21/06/2006	K1		5.00	0.2	3.7
21/06/2006	K2		5.00	0.2	3.7
21/06/2006	K3		5.00	0.2	3.7

21/06/2006	K4		5.00	0.2	3.7
21/06/2006	K5		5.00	0.2	3.7
21/06/2006	L1		7.50	0.2	3.7
21/06/2006	L2		7.50	0.2	3.7
21/06/2006	L3		7.50	0.2	3.7
21/06/2006	L4		7.50	0.2	3.7
21/06/2006	L5		7.50	0.2	3.7
21/06/2006	M1		7.50	0.2	3.7
21/06/2006	M2		7.50	0.2	3.7
21/06/2006	M3		7.50	0.2	3.7
21/06/2006	M4		7.50	0.2	3.7
21/06/2006	M5		7.50	0.2	3.7
22/06/2006	A1	Not Irrigated	0.00	0	3.8
22/06/2006	A2	Not Irrigated	0.00	0	3.8
22/06/2006	A3	Not Irrigated	0.00	0	3.8
22/06/2006	A4	Not Irrigated	0.00	0	3.8
22/06/2006	A5	Not Irrigated	0.00	0	3.8
22/06/2006	B1	Not Irrigated	0.00	0	3.8
22/06/2006	B2	Not Irrigated	0.00	0	3.8
22/06/2006	B3	Not Irrigated	0.00	0	3.8
22/06/2006	B4	Not Irrigated	0.00	0	3.8
22/06/2006	B5	Not Irrigated	0.00	0	3.8
22/06/2006	C1	Not Irrigated	0.00	0	3.8
22/06/2006	C2	Not Irrigated	0.00	0	3.8
22/06/2006	C3	Not Irrigated	0.00	0	3.8
22/06/2006	C4	Not Irrigated	0.00	0	3.8
22/06/2006	C5	Not Irrigated	0.00	0	3.8
22/06/2006	D1	Not Irrigated	0.00	0	3.8
22/06/2006	D2	Not Irrigated	0.00	0	3.8
22/06/2006	D3	Not Irrigated	0.00	0	3.8
22/06/2006	D4	Not Irrigated	0.00	0	3.8
22/06/2006	D5	Not Irrigated	0.00	0	3.8
22/06/2006	E1	Not Irrigated	0.00	0	3.8
22/06/2006	E2	Not Irrigated	0.00	0	3.8
22/06/2006	E3	Not Irrigated	0.00	0	3.8
22/06/2006	E4	Not Irrigated	0.00	0	3.8
22/06/2006	E5	Not Irrigated	0.00	0	3.8
22/06/2006	F1	Not Irrigated	0.00	0	3.8
22/06/2006	F2	Not Irrigated	0.00	0	3.8
22/06/2006	F3	Not Irrigated	0.00	0	3.8
22/06/2006	F4	Not Irrigated	0.00	0	3.8
22/06/2006	F5	Not Irrigated	0.00	0	3.8
22/06/2006	G1	Not Irrigated	0.00	0	3.8
22/06/2006	G2	Not Irrigated	0.00	0	3.8
22/06/2006	G3	Not Irrigated	0.00	0	3.8
22/06/2006	G4	Not Irrigated	0.00	0	3.8
22/06/2006	G5	Not Irrigated	0.00	0	3.8
22/06/2006	H1	Not Irrigated	0.00	0	3.8
22/06/2006	H2	Not Irrigated	0.00	0	3.8
22/06/2006	H3	Not Irrigated	0.00	0	3.8
22/06/2006	H4	Not Irrigated	0.00	0	3.8
22/06/2006	H5	Not Irrigated	0.00	0	3.8
22/06/2006	I1	Not Irrigated	0.00	0	3.8
22/06/2006	I2	Not Irrigated	0.00	0	3.8
22/06/2006	I3	Not Irrigated	0.00	0	3.8

22/06/2006	I4	Not Irrigated	0.00	0	3.8
22/06/2006	I5	Not Irrigated	0.00	0	3.8
22/06/2006	J1	Not Irrigated	0.00	0	3.8
22/06/2006	J2	Not Irrigated	0.00	0	3.8
22/06/2006	J3	Not Irrigated	0.00	0	3.8
22/06/2006	J4	Not Irrigated	0.00	0	3.8
22/06/2006	J5	Not Irrigated	0.00	0	3.8
22/06/2006	K1	Not Irrigated	0.00	0	3.8
22/06/2006	K2	Not Irrigated	0.00	0	3.8
22/06/2006	K3	Not Irrigated	0.00	0	3.8
22/06/2006	K4	Not Irrigated	0.00	0	3.8
22/06/2006	K5	Not Irrigated	0.00	0	3.8
22/06/2006	L1	Not Irrigated	0.00	0	3.8
22/06/2006	L2	Not Irrigated	0.00	0	3.8
22/06/2006	L3	Not Irrigated	0.00	0	3.8
22/06/2006	L4	Not Irrigated	0.00	0	3.8
22/06/2006	L5	Not Irrigated	0.00	0	3.8
22/06/2006	M1	Not Irrigated	0.00	0	3.8
22/06/2006	M2	Not Irrigated	0.00	0	3.8
22/06/2006	M3	Not Irrigated	0.00	0	3.8
22/06/2006	M4	Not Irrigated	0.00	0	3.8
22/06/2006	M5	Not Irrigated	0.00	0	3.8
23/06/2006	A1	Not Irrigated	0.00	0	3
23/06/2006	A2	Not Irrigated	0.00	0	3
23/06/2006	A3	Not Irrigated	0.00	0	3
23/06/2006	A4	Not Irrigated	0.00	0	3
23/06/2006	A5	Not Irrigated	0.00	0	3
23/06/2006	B1	Not Irrigated	0.00	0	3
23/06/2006	B2	Not Irrigated	0.00	0	3
23/06/2006	B3	Not Irrigated	0.00	0	3
23/06/2006	B4	Not Irrigated	0.00	0	3
23/06/2006	B5	Not Irrigated	0.00	0	3
23/06/2006	C1	Not Irrigated	0.00	0	3
23/06/2006	C2	Not Irrigated	0.00	0	3
23/06/2006	C3	Not Irrigated	0.00	0	3
23/06/2006	C4	Not Irrigated	0.00	0	3
23/06/2006	C5	Not Irrigated	0.00	0	3
23/06/2006	D1	Not Irrigated	0.00	0	3
23/06/2006	D2	Not Irrigated	0.00	0	3
23/06/2006	D3	Not Irrigated	0.00	0	3
23/06/2006	D4	Not Irrigated	0.00	0	3
23/06/2006	D5	Not Irrigated	0.00	0	3
23/06/2006	E1	Not Irrigated	0.00	0	3
23/06/2006	E2	Not Irrigated	0.00	0	3
23/06/2006	E3	Not Irrigated	0.00	0	3
23/06/2006	E4	Not Irrigated	0.00	0	3
23/06/2006	E5	Not Irrigated	0.00	0	3
23/06/2006	F1	Not Irrigated	0.00	0	3
23/06/2006	F2	Not Irrigated	0.00	0	3
23/06/2006	F3	Not Irrigated	0.00	0	3
23/06/2006	F4	Not Irrigated	0.00	0	3
23/06/2006	F5	Not Irrigated	0.00	0	3
23/06/2006	G1	Not Irrigated	0.00	0	3
23/06/2006	G2	Not Irrigated	0.00	0	3
23/06/2006	G3	Not Irrigated	0.00	0	3

23/06/2006	G4	Not Irrigated	0.00	0	3
23/06/2006	G5	Not Irrigated	0.00	0	3
23/06/2006	H1	Not Irrigated	0.00	0	3
23/06/2006	H2	Not Irrigated	0.00	0	3
23/06/2006	H3	Not Irrigated	0.00	0	3
23/06/2006	H4	Not Irrigated	0.00	0	3
23/06/2006	H5	Not Irrigated	0.00	0	3
23/06/2006	I1	Not Irrigated	0.00	0	3
23/06/2006	I2	Not Irrigated	0.00	0	3
23/06/2006	I3	Not Irrigated	0.00	0	3
23/06/2006	I4	Not Irrigated	0.00	0	3
23/06/2006	I5	Not Irrigated	0.00	0	3
23/06/2006	J1	Not Irrigated	0.00	0	3
23/06/2006	J2	Not Irrigated	0.00	0	3
23/06/2006	J3	Not Irrigated	0.00	0	3
23/06/2006	J4	Not Irrigated	0.00	0	3
23/06/2006	J5	Not Irrigated	0.00	0	3
23/06/2006	K1	Not Irrigated	0.00	0	3
23/06/2006	K2	Not Irrigated	0.00	0	3
23/06/2006	K3	Not Irrigated	0.00	0	3
23/06/2006	K4	Not Irrigated	0.00	0	3
23/06/2006	K5	Not Irrigated	0.00	0	3
23/06/2006	L1	Not Irrigated	0.00	0	3
23/06/2006	L2	Not Irrigated	0.00	0	3
23/06/2006	L3	Not Irrigated	0.00	0	3
23/06/2006	L4	Not Irrigated	0.00	0	3
23/06/2006	L5	Not Irrigated	0.00	0	3
23/06/2006	M1	Not Irrigated	0.00	0	3
23/06/2006	M2	Not Irrigated	0.00	0	3
23/06/2006	M3	Not Irrigated	0.00	0	3
23/06/2006	M4	Not Irrigated	0.00	0	3
23/06/2006	M5	Not Irrigated	0.00	0	3
26/06/2006	A1	165	5.52	0.4	2.4
26/06/2006	A2	190	6.36	0.4	2.4
26/06/2006	A3	150	5.02	0.4	2.4
26/06/2006	A4	165	5.52	0.4	2.4
26/06/2006	A5	155	5.19	0.4	2.4
26/06/2006	B1	165	5.52	0.4	2.4
26/06/2006	B2	190	6.36	0.4	2.4
26/06/2006	B3	150	5.02	0.4	2.4
26/06/2006	B4	165	5.52	0.4	2.4
26/06/2006	B5	155	5.19	0.4	2.4
26/06/2006	C1	165	5.52	0.4	2.4
26/06/2006	C2	190	6.36	0.4	2.4
26/06/2006	C3	150	5.02	0.4	2.4
26/06/2006	C4	165	5.52	0.4	2.4
26/06/2006	C5	155	5.19	0.4	2.4
26/06/2006	D1	85	2.85	0.4	2.4
26/06/2006	D2	100	3.35	0.4	2.4
26/06/2006	D3	130	4.35	0.4	2.4
26/06/2006	D4	115	3.85	0.4	2.4
26/06/2006	D5	145	4.85	0.4	2.4
26/06/2006	E1	80	2.68	0.4	2.4
26/06/2006	E2	95	3.18	0.4	2.4
26/06/2006	E3	65	2.18	0.4	2.4

26/06/2006	E4	60	2.01	0.4	2.4
26/06/2006	E5	100	3.35	0.4	2.4
26/06/2006	F1	230	7.70	0.4	2.4
26/06/2006	F2	175	5.86	0.4	2.4
26/06/2006	F3	175	5.86	0.4	2.4
26/06/2006	F4	130	4.35	0.4	2.4
26/06/2006	F5	45	1.51	0.4	2.4
26/06/2006	G1	230	7.70	0.4	2.4
26/06/2006	G2	175	5.86	0.4	2.4
26/06/2006	G3	175	5.86	0.4	2.4
26/06/2006	G4	130	4.35	0.4	2.4
26/06/2006	G5	45	1.51	0.4	2.4
26/06/2006	H1	305	10.21	0.4	2.4
26/06/2006	H2	160	5.36	0.4	2.4
26/06/2006	H3	160	5.36	0.4	2.4
26/06/2006	H4	145	4.85	0.4	2.4
26/06/2006	H5	50	1.67	0.4	2.4
26/06/2006	I1		0.00	0.4	2.4
26/06/2006	I2		0.00	0.4	2.4
26/06/2006	I3		0.00	0.4	2.4
26/06/2006	I4		0.00	0.4	2.4
26/06/2006	I5		0.00	0.4	2.4
26/06/2006	J1	200	6.70	0.4	2.4
26/06/2006	J2	160	5.36	0.4	2.4
26/06/2006	J3	160	5.36	0.4	2.4
26/06/2006	J4	145	4.85	0.4	2.4
26/06/2006	J5	50	1.67	0.4	2.4
26/06/2006	K1	170	5.69	0.4	2.4
26/06/2006	K2	220	7.37	0.4	2.4
26/06/2006	K3	205	6.86	0.4	2.4
26/06/2006	K4	215	7.20	0.4	2.4
26/06/2006	K5	200	6.70	0.4	2.4
26/06/2006	L1	180	6.03	0.4	2.4
26/06/2006	L2	110	3.68	0.4	2.4
26/06/2006	L3	105	3.52	0.4	2.4
26/06/2006	L4	150	5.02	0.4	2.4
26/06/2006	L5	155	5.19	0.4	2.4
26/06/2006	M1	240	8.04	0.4	2.4
26/06/2006	M2	240	8.04	0.4	2.4
26/06/2006	M3	300	10.04	0.4	2.4
26/06/2006	M4	245	8.20	0.4	2.4
26/06/2006	M5	235	7.87	0.4	2.4
27/06/2006	A1	155	5.19	3.4	1.9
27/06/2006	A2	245	8.20	3.4	1.9
27/06/2006	A3	205	6.86	3.4	1.9
27/06/2006	A4	200	6.70	3.4	1.9
27/06/2006	A5	225	7.53	3.4	1.9
27/06/2006	B1	155	5.19	3.4	1.9
27/06/2006	B2	245	8.20	3.4	1.9
27/06/2006	B3	205	6.86	3.4	1.9
27/06/2006	B4	200	6.70	3.4	1.9
27/06/2006	B5	225	7.53	3.4	1.9
27/06/2006	C1	155	5.19	3.4	1.9
27/06/2006	C2	245	8.20	3.4	1.9
27/06/2006	C3	205	6.86	3.4	1.9

27/06/2006	C4	200	6.70	3.4	1.9
27/06/2006	C5	225	7.53	3.4	1.9
27/06/2006	D1	135	4.52	3.4	1.9
27/06/2006	D2	115	3.85	3.4	1.9
27/06/2006	D3	180	6.03	3.4	1.9
27/06/2006	D4	175	5.86	3.4	1.9
27/06/2006	D5	165	5.52	3.4	1.9
27/06/2006	E1	135	4.52	3.4	1.9
27/06/2006	E2	90	3.01	3.4	1.9
27/06/2006	E3	115	3.85	3.4	1.9
27/06/2006	E4	90	3.01	3.4	1.9
27/06/2006	E5	65	2.18	3.4	1.9
27/06/2006	F1	160	5.36	3.4	1.9
27/06/2006	F2	190	6.36	3.4	1.9
27/06/2006	F3	160	5.36	3.4	1.9
27/06/2006	F4	120	4.02	3.4	1.9
27/06/2006	F5	130	4.35	3.4	1.9
27/06/2006	G1	130	4.35	3.4	1.9
27/06/2006	G2	125	4.18	3.4	1.9
27/06/2006	G3	95	3.18	3.4	1.9
27/06/2006	G4	90	3.01	3.4	1.9
27/06/2006	G5	75	2.51	3.4	1.9
27/06/2006	H1	115	3.85	3.4	1.9
27/06/2006	H2	130	4.35	3.4	1.9
27/06/2006	H3	150	5.02	3.4	1.9
27/06/2006	H4	150	5.02	3.4	1.9
27/06/2006	H5	105	3.52	3.4	1.9
27/06/2006	I1		0.00	3.4	1.9
27/06/2006	I2		0.00	3.4	1.9
27/06/2006	I3		0.00	3.4	1.9
27/06/2006	I4		0.00	3.4	1.9
27/06/2006	I5		0.00	3.4	1.9
27/06/2006	J1	110	3.68	3.4	1.9
27/06/2006	J2	115	3.85	3.4	1.9
27/06/2006	J3	125	4.18	3.4	1.9
27/06/2006	J4	125	4.18	3.4	1.9
27/06/2006	J5	100	3.35	3.4	1.9
27/06/2006	K1	Not Irrigated	0.00	3.4	1.9
27/06/2006	K2	Not Irrigated	0.00	3.4	1.9
27/06/2006	K3	Not Irrigated	0.00	3.4	1.9
27/06/2006	K4	Not Irrigated	0.00	3.4	1.9
27/06/2006	K5	Not Irrigated	0.00	3.4	1.9
27/06/2006	L1	180	6.03	3.4	1.9
27/06/2006	L2	110	3.68	3.4	1.9
27/06/2006	L3	105	3.52	3.4	1.9
27/06/2006	L4	150	5.02	3.4	1.9
27/06/2006	L5	155	5.19	3.4	1.9
27/06/2006	M1	245	8.20	3.4	1.9
27/06/2006	M2	260	8.70	3.4	1.9
27/06/2006	M3	255	8.54	3.4	1.9
27/06/2006	M4	275	9.21	3.4	1.9
27/06/2006	M5	265	8.87	3.4	1.9
28/06/2006	A1	90	3.01	0	3.2
28/06/2006	A2	130	4.35	0	3.2
28/06/2006	A3	110	3.68	0	3.2

28/06/2006	A4	85	2.85	0	3.2
28/06/2006	A5	125	4.18	0	3.2
28/06/2006	B1	80	2.68	0	3.2
28/06/2006	B2	105	3.52	0	3.2
28/06/2006	B3	95	3.18	0	3.2
28/06/2006	B4	65	2.18	0	3.2
28/06/2006	B5	85	2.85	0	3.2
28/06/2006	C1	200	6.70	0	3.2
28/06/2006	C2	265	8.87	0	3.2
28/06/2006	C3	250	8.37	0	3.2
28/06/2006	C4	225	7.53	0	3.2
28/06/2006	C5	300	10.04	0	3.2
28/06/2006	D1	120	4.02	0	3.2
28/06/2006	D2	125	4.18	0	3.2
28/06/2006	D3	85	2.85	0	3.2
28/06/2006	D4	60	2.01	0	3.2
28/06/2006	D5	35	1.17	0	3.2
28/06/2006	E1	60	2.01	0	3.2
28/06/2006	E2	55	1.84	0	3.2
28/06/2006	E3	50	1.67	0	3.2
28/06/2006	E4	50	1.67	0	3.2
28/06/2006	E5	70	2.34	0	3.2
28/06/2006	F1	65	2.18	0	3.2
28/06/2006	F2	75	2.51	0	3.2
28/06/2006	F3	50	1.67	0	3.2
28/06/2006	F4	70	2.34	0	3.2
28/06/2006	F5	75	2.51	0	3.2
28/06/2006	G1	35	1.17	0	3.2
28/06/2006	G2	95	3.18	0	3.2
28/06/2006	G3	75	2.51	0	3.2
28/06/2006	G4	55	1.84	0	3.2
28/06/2006	G5	25	0.84	0	3.2
28/06/2006	H1	140	4.69	0	3.2
28/06/2006	H2	105	3.52	0	3.2
28/06/2006	H3	90	3.01	0	3.2
28/06/2006	H4	70	2.34	0	3.2
28/06/2006	H5	55	1.84	0	3.2
28/06/2006	I1		0.00	0	3.2
28/06/2006	I2		0.00	0	3.2
28/06/2006	I3		0.00	0	3.2
28/06/2006	I4		0.00	0	3.2
28/06/2006	I5		0.00	0	3.2
28/06/2006	J1	75	2.51	0	3.2
28/06/2006	J2	50	1.67	0	3.2
28/06/2006	J3	45	1.51	0	3.2
28/06/2006	J4	50	1.67	0	3.2
28/06/2006	J5	65	2.18	0	3.2
28/06/2006	K1	60	2.01	0	3.2
28/06/2006	K2	50	1.67	0	3.2
28/06/2006	K3	65	2.18	0	3.2
28/06/2006	K4	55	1.84	0	3.2
28/06/2006	K5	45	1.51	0	3.2
28/06/2006	L1	80	2.68	0	3.2
28/06/2006	L2	105	3.52	0	3.2
28/06/2006	L3	50	1.67	0	3.2

28/06/2006	L4	60	2.01	0	3.2
28/06/2006	L5	160	5.36	0	3.2
28/06/2006	M1	195	6.53	0	3.2
28/06/2006	M2	230	7.70	0	3.2
28/06/2006	M3	215	7.20	0	3.2
28/06/2006	M4	200	6.70	0	3.2
28/06/2006	M5	230	7.70	0	3.2
05/07/2006	A1	0	0.00	7.6	2.1
05/07/2006	A2	0	0.00	7.6	2.1
05/07/2006	A3	0	0.00	7.6	2.1
05/07/2006	A4	0	0.00	7.6	2.1
05/07/2006	A5	0	0.00	7.6	2.1
05/07/2006	B1	0	0.00	7.6	2.1
05/07/2006	B2	0	0.00	7.6	2.1
05/07/2006	B3	0	0.00	7.6	2.1
05/07/2006	B4	0	0.00	7.6	2.1
05/07/2006	B5	0	0.00	7.6	2.1
05/07/2006	C1	0	0.00	7.6	2.1
05/07/2006	C2	0	0.00	7.6	2.1
05/07/2006	C3	0	0.00	7.6	2.1
05/07/2006	C4	0	0.00	7.6	2.1
05/07/2006	C5	0	0.00	7.6	2.1
05/07/2006	D1	0	0.00	7.6	2.1
05/07/2006	D2	0	0.00	7.6	2.1
05/07/2006	D3	0	0.00	7.6	2.1
05/07/2006	D4	0	0.00	7.6	2.1
05/07/2006	D5	0	0.00	7.6	2.1
05/07/2006	E1	0	0.00	7.6	2.1
05/07/2006	E2	0	0.00	7.6	2.1
05/07/2006	E3	0	0.00	7.6	2.1
05/07/2006	E4	0	0.00	7.6	2.1
05/07/2006	E5	0	0.00	7.6	2.1
05/07/2006	F1	0	0.00	7.6	2.1
05/07/2006	F2	0	0.00	7.6	2.1
05/07/2006	F3	0	0.00	7.6	2.1
05/07/2006	F4	0	0.00	7.6	2.1
05/07/2006	F5	0	0.00	7.6	2.1
05/07/2006	G1	0	0.00	7.6	2.1
05/07/2006	G2	0	0.00	7.6	2.1
05/07/2006	G3	0	0.00	7.6	2.1
05/07/2006	G4	0	0.00	7.6	2.1
05/07/2006	G5	0	0.00	7.6	2.1
05/07/2006	H1	0	0.00	7.6	2.1
05/07/2006	H2	0	0.00	7.6	2.1
05/07/2006	H3	0	0.00	7.6	2.1
05/07/2006	H4	0	0.00	7.6	2.1
05/07/2006	H5	0	0.00	7.6	2.1
05/07/2006	I1	0	0.00	7.6	2.1
05/07/2006	I2	0	0.00	7.6	2.1
05/07/2006	I3	0	0.00	7.6	2.1
05/07/2006	I4	0	0.00	7.6	2.1
05/07/2006	I5	0	0.00	7.6	2.1
05/07/2006	J1	0	0.00	7.6	2.1
05/07/2006	J2	0	0.00	7.6	2.1
05/07/2006	J3	0	0.00	7.6	2.1

05/07/2006	J4	0	0.00	7.6	2.1
05/07/2006	J5	0	0.00	7.6	2.1
05/07/2006	K1	0	0.00	7.6	2.1
05/07/2006	K2	0	0.00	7.6	2.1
05/07/2006	K3	0	0.00	7.6	2.1
05/07/2006	K4	0	0.00	7.6	2.1
05/07/2006	K5	0	0.00	7.6	2.1
05/07/2006	L1	0	0.00	7.6	2.1
05/07/2006	L2	0	0.00	7.6	2.1
05/07/2006	L3	0	0.00	7.6	2.1
05/07/2006	L4	0	0.00	7.6	2.1
05/07/2006	L5	0	0.00	7.6	2.1
05/07/2006	M1	0	0.00	7.6	2.1
05/07/2006	M2	0	0.00	7.6	2.1
05/07/2006	M3	0	0.00	7.6	2.1
05/07/2006	M4	0	0.00	7.6	2.1
05/07/2006	M5	0	0.00	7.6	2.1
06/07/2006	A1	0	0.00	16.2	2
06/07/2006	A2	0	0.00	16.2	2
06/07/2006	A3	0	0.00	16.2	2
06/07/2006	A4	0	0.00	16.2	2
06/07/2006	A5	0	0.00	16.2	2
06/07/2006	B1	0	0.00	16.2	2
06/07/2006	B2	0	0.00	16.2	2
06/07/2006	B3	0	0.00	16.2	2
06/07/2006	B4	0	0.00	16.2	2
06/07/2006	B5	0	0.00	16.2	2
06/07/2006	C1	0	0.00	16.2	2
06/07/2006	C2	0	0.00	16.2	2
06/07/2006	C3	0	0.00	16.2	2
06/07/2006	C4	0	0.00	16.2	2
06/07/2006	C5	0	0.00	16.2	2
06/07/2006	D1	0	0.00	16.2	2
06/07/2006	D2	0	0.00	16.2	2
06/07/2006	D3	0	0.00	16.2	2
06/07/2006	D4	0	0.00	16.2	2
06/07/2006	D5	0	0.00	16.2	2
06/07/2006	E1	0	0.00	16.2	2
06/07/2006	E2	0	0.00	16.2	2
06/07/2006	E3	0	0.00	16.2	2
06/07/2006	E4	0	0.00	16.2	2
06/07/2006	E5	0	0.00	16.2	2
06/07/2006	F1	0	0.00	16.2	2
06/07/2006	F2	0	0.00	16.2	2
06/07/2006	F3	0	0.00	16.2	2
06/07/2006	F4	0	0.00	16.2	2
06/07/2006	F5	0	0.00	16.2	2
06/07/2006	G1	0	0.00	16.2	2
06/07/2006	G2	0	0.00	16.2	2
06/07/2006	G3	0	0.00	16.2	2
06/07/2006	G4	0	0.00	16.2	2
06/07/2006	G5	0	0.00	16.2	2
06/07/2006	H1	0	0.00	16.2	2
06/07/2006	H2	0	0.00	16.2	2
06/07/2006	H3	0	0.00	16.2	2

06/07/2006	H4	0	0.00	16.2	2
06/07/2006	H5	0	0.00	16.2	2
06/07/2006	I1	0	0.00	16.2	2
06/07/2006	I2	0	0.00	16.2	2
06/07/2006	I3	0	0.00	16.2	2
06/07/2006	I4	0	0.00	16.2	2
06/07/2006	I5	0	0.00	16.2	2
06/07/2006	J1	0	0.00	16.2	2
06/07/2006	J2	0	0.00	16.2	2
06/07/2006	J3	0	0.00	16.2	2
06/07/2006	J4	0	0.00	16.2	2
06/07/2006	J5	0	0.00	16.2	2
06/07/2006	K1	0	0.00	16.2	2
06/07/2006	K2	0	0.00	16.2	2
06/07/2006	K3	0	0.00	16.2	2
06/07/2006	K4	0	0.00	16.2	2
06/07/2006	K5	0	0.00	16.2	2
06/07/2006	L1	0	0.00	16.2	2
06/07/2006	L2	0	0.00	16.2	2
06/07/2006	L3	0	0.00	16.2	2
06/07/2006	L4	0	0.00	16.2	2
06/07/2006	L5	0	0.00	16.2	2
06/07/2006	M1	0	0.00	16.2	2
06/07/2006	M2	0	0.00	16.2	2
06/07/2006	M3	0	0.00	16.2	2
06/07/2006	M4	0	0.00	16.2	2
06/07/2006	M5	0	0.00	16.2	2
07/07/2006	A1	0	0.00		
07/07/2006	A2	0	0.00		
07/07/2006	A3	0	0.00		
07/07/2006	A4	0	0.00		
07/07/2006	A5	0	0.00		
07/07/2006	B1	0	0.00		
07/07/2006	B2	0	0.00		
07/07/2006	B3	0	0.00		
07/07/2006	B4	0	0.00		
07/07/2006	B5	0	0.00		
07/07/2006	C1	0	0.00		
07/07/2006	C2	0	0.00		
07/07/2006	C3	0	0.00		
07/07/2006	C4	0	0.00		
07/07/2006	C5	0	0.00		
07/07/2006	D1	0	0.00		
07/07/2006	D2	0	0.00		
07/07/2006	D3	0	0.00		
07/07/2006	D4	0	0.00		
07/07/2006	D5	0	0.00		
07/07/2006	E1	0	0.00		
07/07/2006	E2	0	0.00		
07/07/2006	E3	0	0.00		
07/07/2006	E4	0	0.00		
07/07/2006	E5	0	0.00		
07/07/2006	F1	0	0.00		
07/07/2006	F2	0	0.00		
07/07/2006	F3	0	0.00		

07/07/2006	F4	0	0.00
07/07/2006	F5	0	0.00
07/07/2006	G1	0	0.00
07/07/2006	G2	0	0.00
07/07/2006	G3	0	0.00
07/07/2006	G4	0	0.00
07/07/2006	G5	0	0.00
07/07/2006	H1	0	0.00
07/07/2006	H2	0	0.00
07/07/2006	H3	0	0.00
07/07/2006	H4	0	0.00
07/07/2006	H5	0	0.00
07/07/2006	I1	0	0.00
07/07/2006	I2	0	0.00
07/07/2006	I3	0	0.00
07/07/2006	I4	0	0.00
07/07/2006	I5	0	0.00
07/07/2006	J1	0	0.00
07/07/2006	J2	0	0.00
07/07/2006	J3	0	0.00
07/07/2006	J4	0	0.00
07/07/2006	J5	0	0.00
07/07/2006	K1	0	0.00
07/07/2006	K2	0	0.00
07/07/2006	K3	0	0.00
07/07/2006	K4	0	0.00
07/07/2006	K5	0	0.00
07/07/2006	L1	0	0.00
07/07/2006	L2	0	0.00
07/07/2006	L3	0	0.00
07/07/2006	L4	0	0.00
07/07/2006	L5	0	0.00
07/07/2006	M1	0	0.00
07/07/2006	M2	0	0.00
07/07/2006	M3	0	0.00
07/07/2006	M4	0	0.00
07/07/2006	M5	0	0.00

Effective irrigation (mm)
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Date	Tmax °C	Tmin °C	RH %	Sun hr	Solar MJ/m2	Net MJ/m2	Wind km/d	ET mm/d
01/04/2005	13.3	8	92	1.1	7.9	4.99	23.6	1.2
02/04/2005	17.1	6.1	74	5.7	12.9	6.57	46.4	1.8
03/04/2005	18.1	4.8	78	3.5	10.5	5.98	214.6	2
04/04/2005	11.6	3.9	94	0	4.6	3.85	127.1	0.8
05/04/2005	11.7	3.3	80	5.1	12.6	6.74	243.8	1.7
06/04/2005	13	5.9	81	2.6	9.9	5.84	396.6	1.8
07/04/2005	12.3	4.5	79	5.3	12.9	6.95	222.7	2
08/04/2005	6.1	-0.6	75	0	7.2	4.9	219.6	1.4
09/04/2005	10.3	-1	68	4	11.8	6.57	180.5	1.5
10/04/2005	14.5	4.4	81	5.3	13.3	7.3	136.5	1.6
11/04/2005	14.4	3.7	79	3.5	11.4	6.61	65.9	1.6
12/04/2005	13.1	6.1	95	0	6.4	4.74	99.7	0.9
13/04/2005	11.9	5.2	86	2.1	9.9	6.17	101.1	1.4
14/04/2005	11.7	2.7	87	1.9	9.8	6.15	108.7	1.4
15/04/2005	8.1	1.8	99	0	4	3.81	82.1	0.7
16/04/2005	9.6	0.4	86	0.3	8.2	5.55	62.6	1.1
17/04/2005	14.1	-1	80	7.7	16.8	9.01	173.7	2
18/04/2005	13.6	2	82	4.7	13.4	7.81	185.1	1.5
19/04/2005	12.6	0.7	87	1.2	9.5	6.16	100.2	1.5
20/04/2005	10.1	4.6	95	0	5.9	4.71	87.7	0.8
21/04/2005	14.7	3.1	74	7.2	16.5	9	63.8	2.1
22/04/2005	15.8	0.3	72	7.3	16.7	9.18	124.2	2.4
23/04/2005	14	4.2	75	0.4	8.9	5.99	104	1.4
24/04/2005	15.3	5.6	84	3.8	12.9	7.8	111.2	1.8
25/04/2005	15.2	7	97	0	7.2	5.36	89.3	1.3
26/04/2005	13.3	6.4	96	0.1	8.6	6.01	143.6	1.2
27/04/2005	14	6.2	83	6.9	16.8	9.6	205	2.2
28/04/2005	14.4	9.3	91	0	8.3	5.9	286.2	1.2
29/04/2005	18.9	8.7	78	8.5	18.9	10.62	81.3	2.7
30/04/2005	20	12.8	94	1.5	10.6	7.12	145.9	1.6
01/05/2005	22.4	12.6	81	5.8	15.8	9.57	107.6	2.9
02/05/2005	19.5	11.5	82	4.5	14.3	8.78	98.3	2.7
03/05/2005	16.2	10.8	91	1.5	10.7	7.17	162.8	1.9
04/05/2005	11.8	1.3	96	0	3.8	3.87	123	0.9
05/05/2005	17.2	1.2	81	2	11.5	7.51	135.4	1.6
06/05/2005	15	9.7	68	5	15.2	9.06	190.2	2.6
07/05/2005	12.9	6.5	74	6.8	17.5	10.2	249.5	2.6
08/05/2005	12	4.8	70	4.8	15.1	9.06	181.3	2.4
09/05/2005	11.9	1	83	5.7	16.3	9.75	101.3	2.1
10/05/2005	11.3	0	84	3.3	13.4	8.41	88.5	1.8
11/05/2005	12.4	-0.7	78	5.5	16.1	9.66	69.3	2
12/05/2005	14	-0.3	77	8.3	19.7	11.33	173	2.4
13/05/2005	14.7	5.8	79	7.1	18.3	10.7	227.3	2.6
14/05/2005	13.1	3.9	80	4.3	14.8	9.17	161.9	2.3
15/05/2005	16.3	-0.1	75	7.7	19.1	11.13	36.1	2.5
16/05/2005	12	5.2	88	0	6.2	5.16	119.2	1.1
17/05/2005	11.4	0.3	71	5.6	16.7	9.99	61.3	2.3
18/05/2005	14.2	1.9	68	4.7	15.6	9.53	171.5	2.2
19/05/2005	15.3	7.5	100	0	8	6.07	288.3	0.5
20/05/2005	18	9.8	92	1.4	11.6	7.87	248.1	1.9
21/05/2005	14.9	6.6	96	0.9	11	7.56	198.9	1.8
22/05/2005	15	8.2	86	4.1	15	9.53	233.4	2.2
23/05/2005	15.7	6.6	78	9.2	21.5	12.53	230.7	3.2

24/05/2005	17.3	9.5	89	0	8.6	6.4	298.4	1.8
25/05/2005	20.9	10.3	82	3.5	14.3	9.32	185.3	2.5
26/05/2005	22	14.8	82	5	16.3	10.43	150.4	2.9
27/05/2005	28.6	14.3	71	7.3	19.2	11.85	128	3.9
28/05/2005	18.4	9.3	76	7.8	19.9	12.06	298.7	3.5
29/05/2005	15.7	7.1	81	2.9	13.8	9	58.7	2.3
30/05/2005	16.7	9	72	8.1	20.3	12.1	86.9	3
31/05/2005	18.1	8.2	76	5.6	17.2	10.64	72.7	2.7
01/06/2005	15.9	6.9	97	0	8.2	6.24	194.6	0.9
02/06/2005	18.3	12.9	96	1	11.4	7.99	208.6	1.4
03/06/2005	20	9.9	90	5	16.5	10.52	167.3	3
04/06/2005	17.3	11	84	5.3	16.9	10.7	305.5	2.7
05/06/2005	17.6	12.2	85	3.3	14.5	9.48	180.2	2.4
06/06/2005	14.6	5.6	83	0.6	11	7.7	148	1.9
07/06/2005	16.4	2.1	75	9.6	22.4	13.23	68.3	3
08/06/2005	20.3	4.7	66	11	24.2	13.96	50.6	3.3
09/06/2005	21.3	5.8	70	6.3	18.4	11.39	88.3	2.8
10/06/2005	15.6	3.9	87	0	8.9	6.67	117.9	1.3
11/06/2005	13.6	2.5	85	3.5	14.8	9.64	57.6	2
12/06/2005	15.6	7	78	0.8	11.4	7.87	128.5	1.7
13/06/2005	17	5.5	72	6.3	18.4	11.28	181.6	3
14/06/2005	19.3	7.9	77	4.7	16.3	10.34	210.8	2.9
15/06/2005	19.9	10.6	90	0.5	11	7.77	237.5	2.1
16/06/2005	20.3	12.6	97	0.1	10.6	7.59	272.9	1.3
17/06/2005	25.4	16.7	90	4.5	16.1	10.73	190.1	2.7
18/06/2005	28.9	14.2	75	8.6	21.3	13.28	92.5	4.2
19/06/2005	30.7	15.1	67	9.6	22.6	13.93	134	4.8
20/06/2005	26	15.3	77	5.5	17.3	11.14	68.9	3.7
21/06/2005	23.6	13.4	73	7.3	19.6	12.15	69.4	3.8
22/06/2005	26.9	12.6	74	9.6	22.6	13.83	72.1	4
23/06/2005	29.4	13	67	9.9	22.9	13.8	65	4.3
24/06/2005	20.8	14.1	96	0	9.2	6.87	65.7	2
25/06/2005	16.8	12.3	99	0	4.6	4.33	154.9	0.9
26/06/2005	18	10.8	86	2.4	13.4	8.98	97.4	2.3
27/06/2005	18	8.1	87	5.3	17.1	10.88	84.6	2.6
28/06/2005	25.1	13	71	9.1	21.8	13.03	130	4.4
29/06/2005	21.9	13	97	0.9	11.5	8.05	67	2.5
30/06/2005	20	12.6	94	2.1	13	8.84	173.5	2.2
01/07/2005	20.8	12.2	87	4.5	16	10.4	182.8	2.7
02/07/2005	20.5	14.4	96	0	8.9	6.67	169.5	1.4
03/07/2005	19.8	11.8	90	5.1	16.7	10.83	144	2.6
04/07/2005	17.4	12	80	4.9	16.5	10.41	140.2	3
05/07/2005	16.2	9.3	94	0.8	11.3	7.88	243.9	1.4
06/07/2005	18.2	12.9	78	3.3	14.4	9.37	180.3	2.6
07/07/2005	18.3	12.3	98	0	7.1	5.67	156.2	1.5
08/07/2005	18.1	11.6	96	0	8.3	6.3	139.2	1.5
09/07/2005	20.2	12.6	97	0.8	11.2	7.84	127	2
10/07/2005	26.5	12.7	77	11.2	24.2	14.45	106.4	4.2
11/07/2005	25.2	14.6	82	9.7	22.2	13.71	137.8	4
12/07/2005	24.4	13.9	83	11.2	24.1	14.47	93.8	4.3
13/07/2005	29.2	12.1	77	8	20	12.44	55.4	3.6
14/07/2005	28.9	14.6	68	8.8	21	12.79	119.1	4.3
15/07/2005	25.1	15	72	5.9	17.3	10.87	138.6	3.8
16/07/2005	21.7	11.5	72	7.7	19.5	11.73	96.7	3.7
17/07/2005	27.6	10.5	67	11.2	23.8	13.87	90.7	4.2

18/07/2005	23.1	13.5	80	5.5	16.7	10.5	192.1	3.4
19/07/2005	21.1	11.7	68	5.4	16.5	10.14	232.2	3.7
20/07/2005	21.8	12.2	66	7.7	19.4	11.46	171.1	3.8
21/07/2005	18.4	11.7	86	1.8	12	8.03	133.7	2.3
22/07/2005	19.5	11.7	94	0	7	5.55	59.3	1.4
23/07/2005	21.7	13.5	89	0.8	10.7	7.42	37.3	1.9
24/07/2005	19.2	15	98	0	5.8	4.89	96.2	1.3
25/07/2005	15.5	13	97	0	5.1	4.51	110.7	1.2
26/07/2005	18.9	12.2	78	2.7	12.8	8.32	59.6	2.2
27/07/2005	14.2	12	100	0	3.9	3.9	117.6	0.9
28/07/2005	23.6	13.9	95	0	8.5	6.25	155.1	1.4
29/07/2005	20.9	14	81	4.3	14.6	9.22	140.3	2.9
30/07/2005	19.4	11	93	1.3	10.9	7.42	92.2	2
31/07/2005	18.5	13.2	84	2.5	12.3	8.04	93.3	2.2
01/08/2005	20.1	10.2	80	1.8	11.4	7.58	49.2	2.1
02/08/2005	23.9	9.4	74	6.6	17.1	10.29	129.8	2.9
03/08/2005	22	12.4	72	6.6	17.1	10.21	140.9	3.1
04/08/2005	21.9	11.5	74	7.5	18.1	10.59	152.4	3.3
05/08/2005	20.8	12.7	82	1	10.2	6.89	164.2	2.4
06/08/2005	19	9.9	75	1.8	11.1	7.26	89.4	2.3
07/08/2005	19.7	9.6	70	7.1	17.4	9.93	121.4	3
08/08/2005	22	6.4	74	9.8	20.5	11.44	81.3	3.2
09/08/2005	24.4	9.5	65	8.6	19	10.54	92.1	3.2
10/08/2005	22.4	12.6	84	3.8	13.2	8.31	73.5	2.3
11/08/2005	25.4	13.1	69	7.6	17.6	10.13	113.5	3.3
12/08/2005	19.9	10.9	90	0.1	8.7	6.11	84.4	1.9
13/08/2005	19.7	8.4	90	0	8.3	5.88	150.3	1.6
14/08/2005	18.4	11.2	94	0.1	8.5	5.99	139.7	1.4
15/08/2005	22.8	10.1	82	8.3	18.1	10.21	58.3	2.8
16/08/2005	23.6	9.5	82	5.1	14.3	8.58	33.1	2.3
17/08/2005	25.9	9.6	75	9.3	19	10.6	57.4	3
18/08/2005	27.4	10.9	72	6.9	16.1	9.29	40.6	2.6
19/08/2005	17.3	14	100	0	3.4	3.47	79.7	1.2
20/08/2005	18.9	12.9	82	2.4	10.8	6.84	106.6	2
21/08/2005	24.1	12.6	75	9.5	18.8	10.11	74.1	3
22/08/2005	17.7	12.5	100	0	3.6	3.54	95.1	1
23/08/2005	21.4	10.6	78	7.9	16.8	9.18	112.2	2.7
24/08/2005	16.8	12.2	99	0	3.8	3.62	270.6	0.7
25/08/2005	17.3	9.7	85	5	13.3	7.64	185.5	2.2
26/08/2005	18.8	8.9	80	6.4	14.8	8.16	215.6	2.5
27/08/2005	19.2	12.5	88	0.9	8.5	5.67	105.4	1.4
28/08/2005	23.6	12.6	74	8.8	17.2	9.11	163.1	3
29/08/2005	25.1	13	82	8.8	17	9.37	123.4	2.8
30/08/2005	27.2	11.3	76	9.1	17.3	9.25	46.2	2.8
31/08/2005	30.5	14.7	69	6.2	14	7.69	118.9	3.1
01/09/2005	22.7	16.1	80	5.2	12.8	7.31	145.4	2.5
02/09/2005	22.5	11.3	75	8.7	16.4	8.44	72.6	2.8
03/09/2005	25.1	10.4	85	5.4	12.8	7.25	59	2.1
04/09/2005	28.1	16.7	75	7.9	15.4	8.17	78.4	2.6
05/09/2005	22.9	13.8	94	1.8	8.7	5.62	57.1	1.9
06/09/2005	21.8	12.8	87	0.9	7.7	5.06	27.1	1.5
07/09/2005	24.2	11.8	81	4.5	11.4	6.43	140.8	2.2
08/09/2005	23.9	12	82	6.8	13.7	7.23	122.5	2.5
09/09/2005	24.8	10.3	89	5.9	12.6	6.9	39.9	2
10/09/2005	19.6	15.2	100	0	4	3.42	95.5	0.8

11/09/2005	16.5	14	100	0	2.1	2.7	154	0.8
12/09/2005	21.1	11.6	90	5.7	12.1	6.4	77.2	1.9
13/09/2005	22.1	10.4	86	6.4	12.7	6.63	132.4	1.9
14/09/2005	24.5	11.1	86	5	11.2	6.1	156.6	1.8
15/09/2005	21.5	10.9	98	1	7	4.52	192.3	1.4
16/09/2005	13.8	5.9	88	4	10	5.28	183	1.6
17/09/2005	15.5	4.7	80	6.7	12.5	5.76	56.8	1.5
18/09/2005	16.3	7.2	98	0	4.9	3.64	66.4	0.5
19/09/2005	16.5	12.1	93	0	4	3.28	98.9	0.7
20/09/2005	21.1	12.1	90	4.4	9.9	5.17	90.5	1.5
21/09/2005	20.5	10.2	90	4.7	10	5.1	70.8	1.7
22/09/2005	20.5	8.5	87	6.1	11.3	5.39	101.8	1.7
23/09/2005	19	9.5	96	0.3	5.8	3.76	149.5	0.9
24/09/2005	16.5	4.1	83	7.2	12.1	5.31	68.9	1.5
25/09/2005	19.2	11.9	88	4.6	9.5	4.68	185.1	1.2
26/09/2005	17.3	9.9	89	1	6.1	3.7	243.9	1.1
27/09/2005	18.6	10.1	86	3.8	8.6	4.31	220.1	1.3
28/09/2005	15.1	7.3	86	5	9.5	4.32	243.9	1.5
29/09/2005	14.8	8.9	81	4	8.5	3.94	131.6	1.3
30/09/2005	19.5	10.6	100	0	4.3	3.1	223.3	0
01/10/2005	14.2	9.5	89	2.5	7	3.6	156.1	1
02/10/2005	14.4	5.5	85	7	10.8	4.1	102.2	1.3
03/10/2005	14.1	4.1	92	0	3.8	2.84	20.9	0.6
04/10/2005	16.2	3.6	88	5.4	9.2	3.73	43.1	0.9
05/10/2005	15.9	4.3	100	0	3.2	2.64	94.8	0.2
06/10/2005	16.4	13.2	100	0	2.4	2.43	37.2	0.2
07/10/2005	16.7	12.9	97	0	3	2.56	10	0.7
08/10/2005	18.7	8.9	95	0.8	5	2.91	191.1	0.8
09/10/2005	15.1	5.9	87	5	8.3	3.12	95.5	1.2
10/10/2005	22.3	10.2	83	6.2	9.1	3.34	121.1	1
11/10/2005	21.9	13.8	90	2	5.7	2.94	164.3	1
12/10/2005	19.9	16.1	98	0.2	4.2	2.63	179.8	0.9
13/10/2005	16.2	11.6	98	0.3	4.2	2.53	141.8	1.1
14/10/2005	14.6	11	100	0	3.4	2.39	102.1	0.5
15/10/2005	20.5	11.5	93	2.9	6	2.63	86.6	0.8
16/10/2005	18.1	10.2	95	3.3	6.3	2.55	69.7	1
17/10/2005	17.1	8.2	100	0.7	4.2	2.33	48.1	0.8
18/10/2005	13.2	7.9	96	0.5	4	2.24	71.9	0.7
19/10/2005	15.1	9.4	99	1.2	4.5	2.23	150	0.5
20/10/2005	14.6	9.6	90	4.8	6.9	2.11	178.4	0.9
21/10/2005	16.1	9.9	89	3.5	5.9	2.09	246.3	0.8
22/10/2005	14.8	10.3	95	1.8	4.6	2.04	135.4	0.7
23/10/2005	14.2	6.6	96	2.9	5.3	1.96	113.1	0.6
24/10/2005	17.3	11.3	100	0	2.4	1.95	271.1	-0.2
25/10/2005	16	11.3	86	3.3	5.4	1.82	335	0.8
26/10/2005	17.7	11.7	99	2.9	5.1	1.96	210.7	0.1
27/10/2005	20.5	13.9	88	4.6	6.1	1.77	192.1	0.7
28/10/2005	16.8	13.3	97	2.6	4.7	1.78	232.9	0.5
29/10/2005	17	11.2	98	0.4	3.3	1.75	171.6	0.3
30/10/2005	18.8	14	93	0.2	3.1	1.72	210.2	0.5
31/10/2005	14	11.9	100	0	1.7	1.78	82.9	0.7
01/11/2005	13.2	7.8	91	4.7	5.7	1.03	124.3	0.4
02/11/2005	17.9	10.3	100	0	2.2	1.66	306.8	-0.2
03/11/2005	15.3	10.6	92	0.4	2.9	1.51	428.5	0.4
04/11/2005	12.3	5.7	90	4	5.1	0.82	232.4	0.7

05/11/2005	14.2	3.5	99	1.9	3.8	1.2	256.8	0.1
06/11/2005	14.3	8.5	100	0	1.3	1.68	351.7	-0.3
07/11/2005	12.8	7.3	93	3.8	4.7	0.71	204.1	0.4
08/11/2005	15.7	7.4	92	2.2	3.7	1.04	345.8	0
09/11/2005	11.1	5.1	92	3.4	4.4	0.51	98.8	0.6
10/11/2005	14.5	5.4	99	0	1.8	1.46	268.3	-0.5
11/11/2005	14.8	8.2	92	0.4	2.6	1.18	326.2	0.2
12/11/2005	10.5	2.4	95	2	3.4	0.7	116	0.6
13/11/2005	9.7	-0.5	98	2.2	3.4	0.65	103	0.2
14/11/2005	8.4	-1.5	97	3.7	4.2	0.18	115.1	0.2
15/11/2005	11.5	5.6	92	1.3	2.9	0.75	145	0
16/11/2005	7.3	0.9	89	2.7	3.6	0.29	152.2	0.4
17/11/2005	6.1	-2.9	86	3.4	3.9	-0.08	59.7	0.3
18/11/2005	6.2	-5	97	3.3	3.8	-0.07	18.8	0.2
19/11/2005	6.3	-5.7	99	3.1	3.6	-0.06	8.7	0.1
20/11/2005	3.7	-4.1	100	3	3.5	-0.03	53.1	0.1
21/11/2005	5.3	-4	100	2.5	3.2	0.09	12.5	0
22/11/2005	5.9	1.8	100	0	1	1.52	14.7	0.1
23/11/2005	5.4	1.8	100	0	1.1	1.46	68.2	0.2
24/11/2005	9.3	0.4	89	0	1.2	1.33	211.3	0.6
25/11/2005	2.2	-1.2	78	1.5	2.6	0.22	197.2	0.6
26/11/2005	5.7	2.4	97	0.2	2	0.72	269.2	0.1
27/11/2005	4.8	1.4	99	0	1.6	0.97	142	0.2
28/11/2005	3.9	1.7	95	0.6	2.1	0.54	140.1	0.2
29/11/2005	4.4	-1.8	93	1.3	2.4	0.26	72.8	0.2
30/11/2005	7.6	-2.7	99	0	1.5	0.97	139.7	-0.1
01/12/2005	9.2	6.8	100	0	1.1	1.28	285.5	0.1
02/12/2005	9.6	5.7	97	0.1	1.8	0.7	320.1	0.2
03/12/2005	8.4	5.2	99	0.1	1.7	0.69	265.5	0.1
04/12/2005	8.5	4	99	2	2.6	-0.06	129.6	0.1
05/12/2005	7.8	4.3	100	0	1.6	0.78	164.4	0.1
06/12/2005	6.4	2.3	100	0	1	1.29	84.4	0.3
07/12/2005	5.8	0.3	100	1.7	2.4	0	110.4	0
08/12/2005	7.9	-1.6	99	0.3	1.7	0.57	130.5	-0.2
09/12/2005	5.3	-0.6	100	1.6	2.3	-0.01	89.6	0
10/12/2005	7.9	2.1	99	1	2.1	0.18	75.5	0
11/12/2005	6.5	1.1	100	1.5	2.2	-0.02	82.8	0.2
12/12/2005	7.7	1.6	99	1.3	2.1	0.13	180.1	-0.2
13/12/2006	5.9	3.5	96	1.4	2.2	0.01	128.3	0
14/12/2006	8	5.8	99	0	1.3	0.85	132.3	0
15/12/2006	10.7	5.7	95	1.6	2.3	-0.03	182.6	0
16/12/2006	10.8	2.3	76	1.8	2.3	-0.19	308.9	0.6
17/12/2006	3.1	-1.7	69	1.7	2.3	-0.31	188.7	0.9
18/12/2006	7.1	-5.3	88	1.7	2.3	-0.19	153.8	0.3
19/12/2006	8	1.2	99	1.5	2.2	-0.04	96.5	-0.2
20/12/2006	7.1	0	91	0.5	1.8	0.39	101.3	0.1
21/12/2006	9.5	6.4	100	0.2	1.7	0.53	187.1	-0.2
22/12/2006	9	6.9	95	0	1.3	0.89	199.6	0.2
23/12/2006	10	5.1	94	0	1.2	0.93	185.4	0.2
24/12/2006	9.3	1	100	0.2	1.7	0.51	86	0.3
25/12/2006	5.8	-0.5	92	0.8	1.9	0.25	76.7	0.3
26/12/2006	5.1	0.4	97	0	1.2	1.02	159	0.1
27/12/2006	1.3	-1.1	100	0.6	1.9	0.35	206.6	0.1
28/12/2006	0.9	-1.9	99	1.9	2.4	-0.2	172.3	0
29/12/2006	-0.6	-2.5	100	0	0.9	1.37	97.9	0.2

30/12/2006	9.2	-0.4	98	0	0.4	1.79	300.5	0.2
31/12/2005	7.8	3.6	99	0.5	1.9	0.45	239.2	0.1

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Summary of mean going for the three different sections of track at Newcastle Racecourse for a sand
Mean going for the different combinations of soil types and locations are given in the following wor

Date	Chute	Straight	Round	Simulated
24/06/2004	7	6.8	5.8	8.3
25/06/2004	2.7	5.1	4.4	7.3
26/06/2004	5.7	6.9	5.5	7.5
24/07/2004	6.4	8.3	7.7	8.6
04/08/2004	6.2	6.4	7.5	8.9
13/08/2004	DNA	DNA	DNA	5.4
27/08/2004	DNA	DNA	DNA	5.7
30/08/2004	4.4	4.2	4.1	6.7
06/09/2004	7.7	7.9	7.8	8.1
29/09/2004	8.9	9.1	9.6	8.9
10/10/2004	7.7	8.1	7.9	8.8
20/10/2004	DNA	DNA	DNA	5.8
09/04/2005	DNA	DNA	DNA	8.0
19/04/2005	DNA	DNA	DNA	5.9
02/05/2005	DNA	DNA	DNA	7.7
11/05/2005	4.9	6.8	7	7.2
19/05/2005	DNA	DNA	DNA	7.9
01/06/2005	8.2	7.9	8.3	8.8
23/06/2005	DNA	DNA	DNA	9.3
24/06/2005	7.8	8.5	8.7	8.2
25/06/2005	DNA	DNA	DNA	7.9
23/07/2005	8.3	8.3	8.5	9.0
03/08/2005	6.6	8.1	6.7	7.1
12/08/2005	DNA	DNA	DNA	7.2
26/08/2005	DNA	DNA	DNA	7.8
29/08/2005	DNA	DNA	DNA	8.3
05/09/2005	7.6	8.4	8.4	8.0
28/09/2005	8.2	8.3	9.2	8.4
09/10/2005	DNA	DNA	DNA	8.7
19/10/2005	DNA	DNA	DNA	7.6

DNA = Data Not Available

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